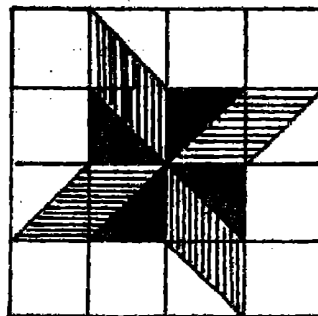
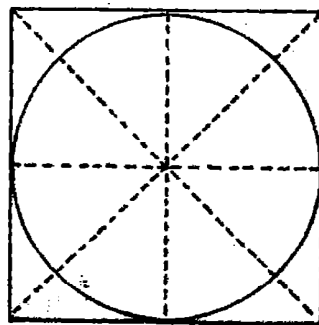
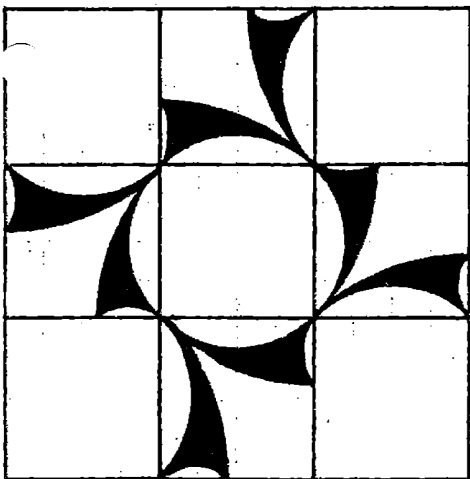
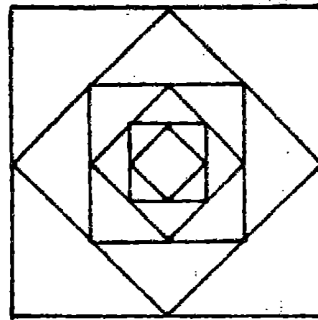
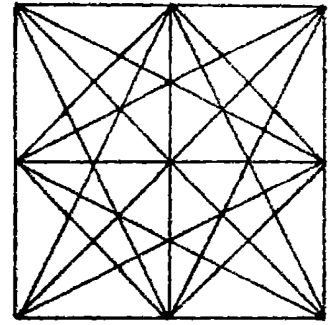
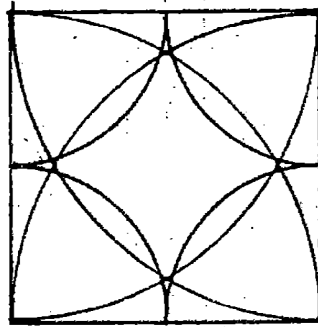
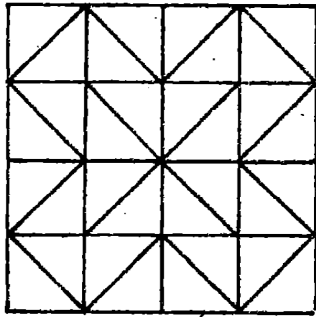


*une collection de
dessins géométriques
présentée
comme
une série d'idées
pour poursuivre
les recherches*



*une collection
à compléter
avec les élèves*

①

*pour le plaisir
le dessin géométrique*

Ce dossier est constitué par des séries de dessins produits dans ma classe au cours de l'année scolaire 1982/1983. Nous pratiquions cette activité au moins une fois par semaine et nous y trouvions beaucoup de plaisir.

Ce dossier n'est pas une progression.

Ce dossier n'aborde pas certaines "notions" comme les droites parallèles, les droites perpendiculaires, les angles...

Ce dossier aborde des éléments qui ne font pas partie "du programme" de l'école élémentaire.

Ce dossier est avant tout UNE COLLECTION ou plutôt un début de collection de dessins géométriques.

Il rassemble des idées sur les principales figures géométriques.

Pour une meilleure lisibilité, les dessins ont été rassemblés par thèmes. En voici la liste:

dessins géométriques à partir

du carré p.4 et 5

du rectangle, du losange, du parallélogramme et du trapèze p.6

du triangle p.7

du cercle p.8, 9 et 10

de l'hexagone p.11

du carré inscrit et de l'octogone p.12

du pentagone p.13

les nombres p.13

les rosaces p.14

la symétrie p.15

pavages et carrelages p.16

chemins et labyrinthes p.17

entrelacs p.18

rythme et effets d'optiques p.19

volumes p.20

divers p.21

Ce dossier est un début que chacun complètera par les trouvailles de ses élèves, par ses propres trouvailles (dans les livres, dans les S.B.T., B.T., dans les dictionnaires...)

Il suffit d'ouvrir les yeux, d'être un peu sensibilisé, pour rencontrer de nombreux "dessins géométriques" dans les journaux, à la télé (FR3 actuellement)... dessins sublimés dans les parquets de certains châteaux (Fontainebleau) ou dans l'agencement des potagers du château de Villardry.

Les dessins géométriques "existent", ils sont partout.

On peut aborder le dessin géométriques de différentes manières. La plus simple consiste à faire travailler les enfants sur des feuilles à petits carreaux.

Les outils nécessaires sont alors la règle et le compas.

En CM2 on pourra demander aux élèves de travailler sur du papier non ligné, l'équerre sera nécessaire. Certains travaux réalisés l'an passé ont nécessité le rapporteur.

Très vite l'élève se rend compte qu'il lui faut des outils qui fonctionnent bien: compas solide, crayons bien taillés, feutres fins... il apprendra à utiliser le compas avec efficacité (mine au niveau de la pointe)...

Il apprendra assez vite à organiser sa feuille de dessins

à compliquer ses dessins en utilisant d'abord le crayon de papier, les crayons de couleur, puis les crayons feutres, en partant d'une petite figure pour arriver à des grandes, en faisant "bouger" ses dessins autour d'un axe pour en voir les effets cinétiques.

Il apprendra les gestes de base:

- .tracer des lignes
- .tracer des lignes perpendiculaires
- .tracer un triangle isocèle, un triangle équilatéral avec le compas
- .partager un cercle en 3, 4, 5, 6, 8, 10, 12 parties
- .couper un angle en deux parties égales
- .se servir du rapporteur

Il travaillera de différentes manières: soit dans un cadre de recherches à partir de données précises fournies par l'enseignant, dans un cadre de recherche libre ou bien exécutera un travail de copie (mêmes mesures, échelle différente: 2 fois plus petit, 10 fois plus grand,...)

Toute investigation se traduira par des travaux significatifs.

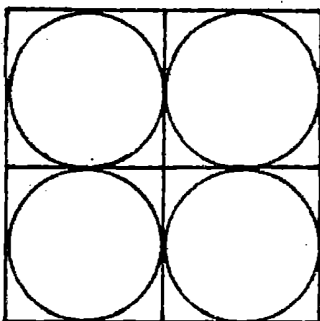
Des élèves vont rapidement se montrer à l'aise dans cette activité, les travaux sont exacts, bien présentés. D'autres élèves vont devoir tâtonner plus longtemps et auront besoin d'aide. Mais la réussite viendra, ainsi qu'une meilleure habilité manuelle et une meilleure perception de l'espace. Les élèves en difficulté sont souvent invités à travailler "en grand", au tableau.

Ce dossier reste très ouvert.

Il permet à chacun de faire preuve d'imagination dans le domaine purement pédagogique. A partir des dessins présentés, on peut réaliser des fiches de travail, faire des recherches plus approfondies dans tel ou tel domaine...

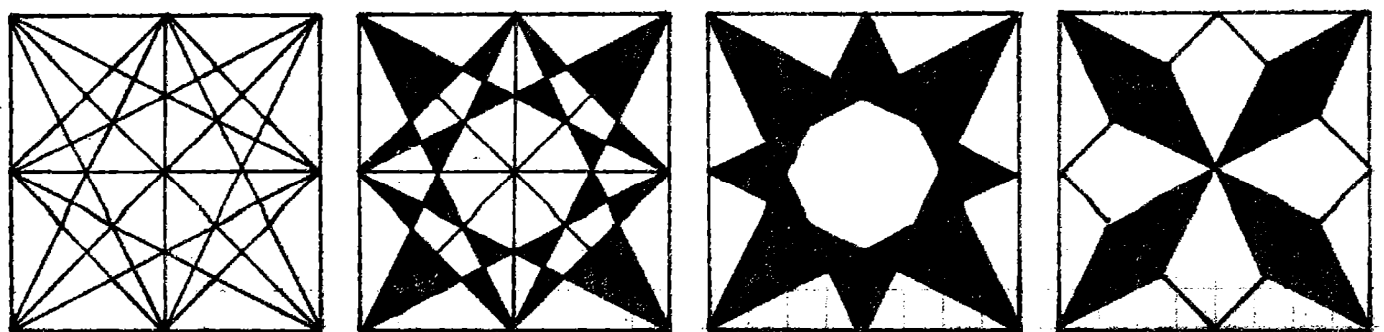
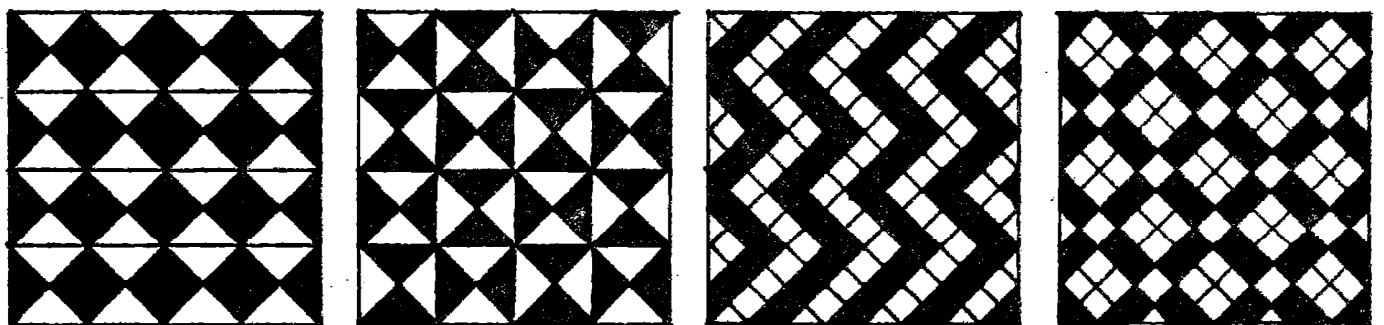
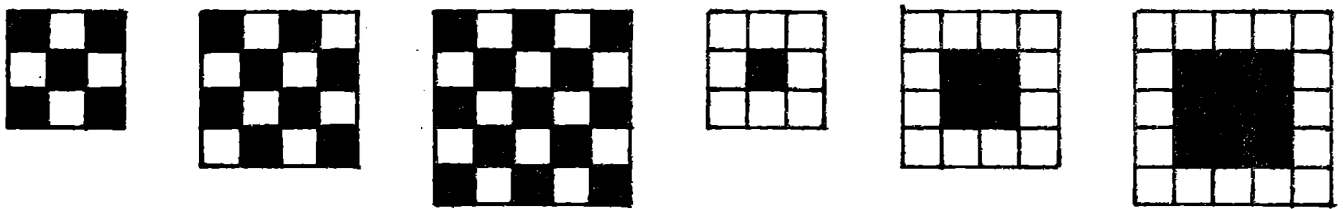
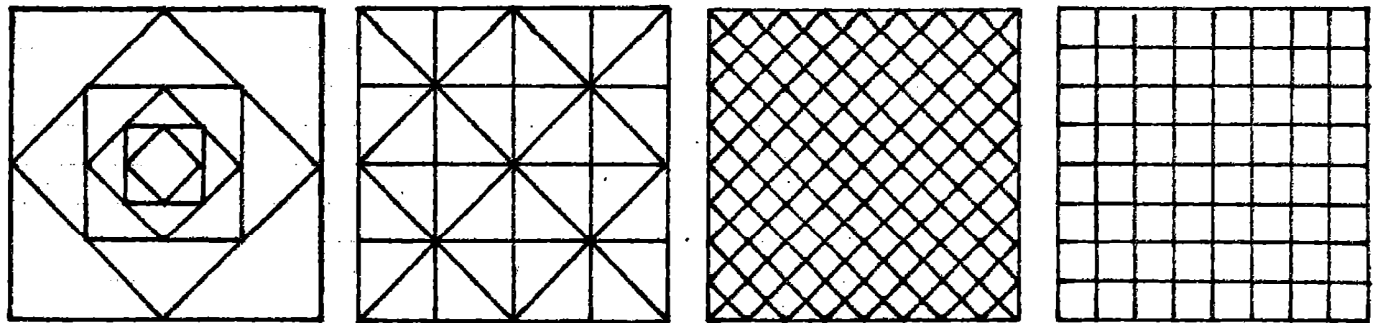
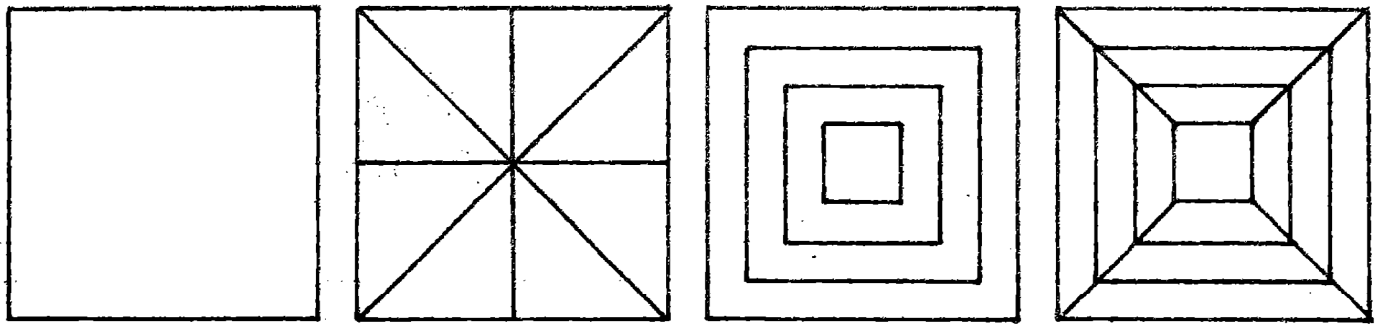
Vos remarques, vos critiques me seront utiles.

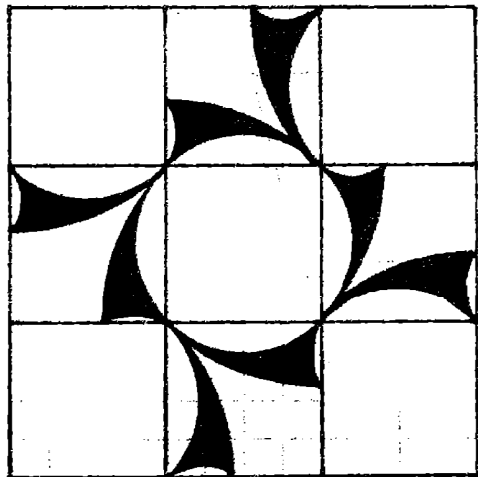
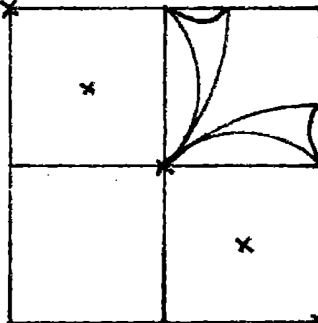
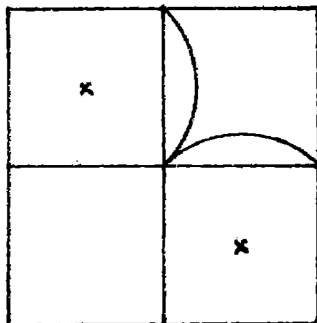
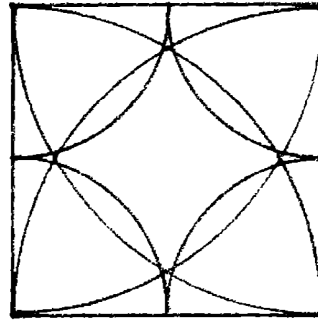
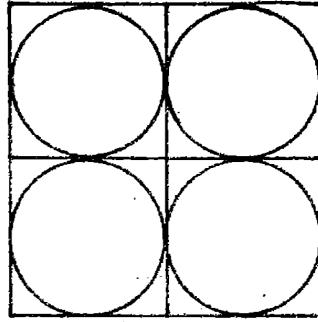
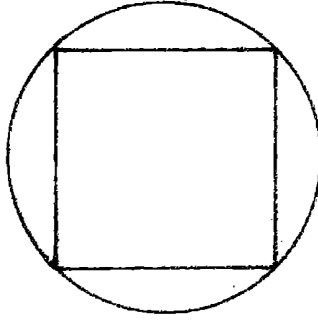
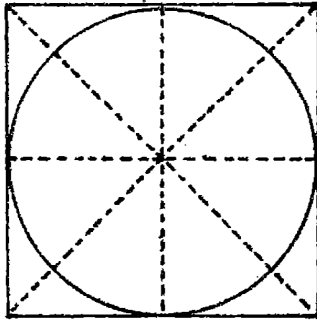
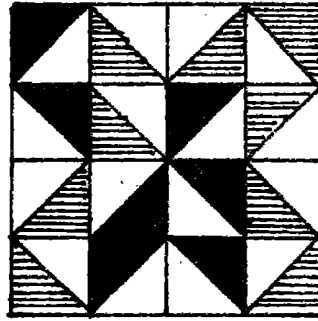
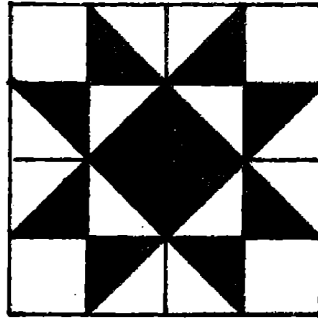
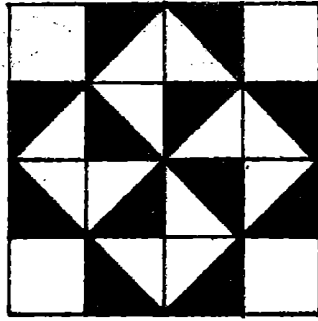
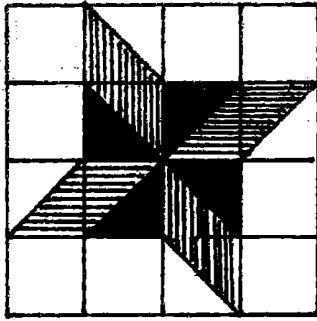
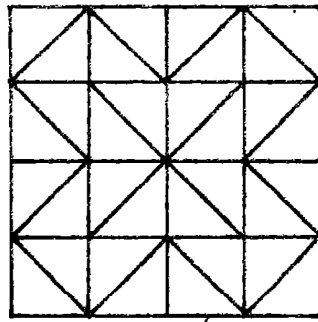
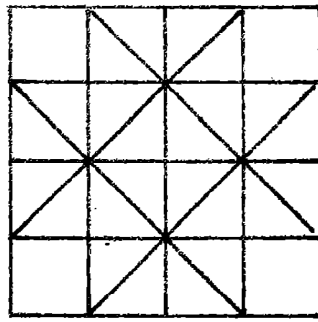
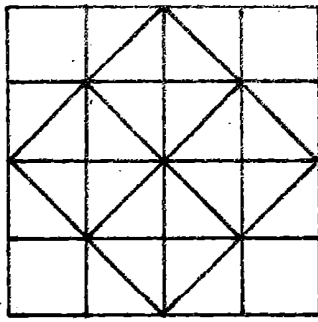
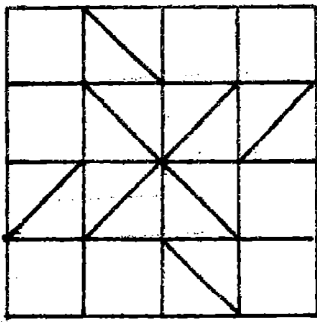
Michel Bonnetier
Ecole Karine
7, place Rabelais
67200 Strasbourg

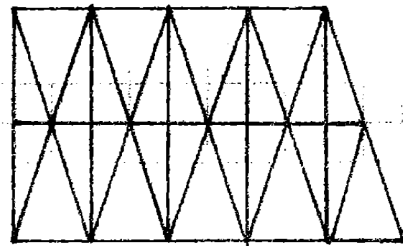
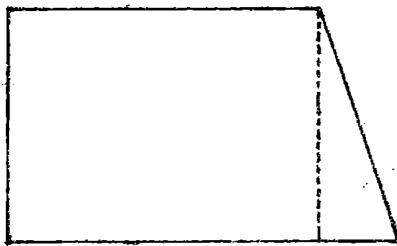
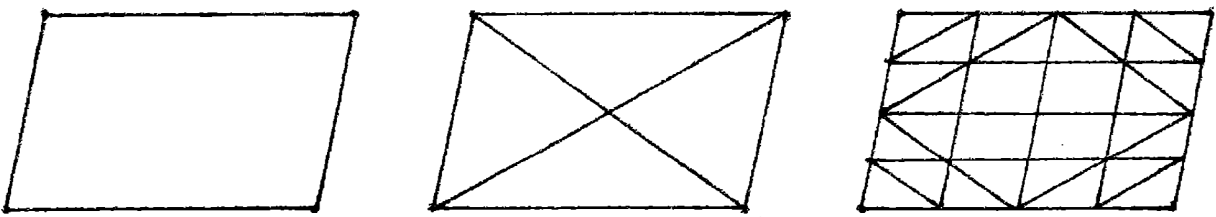
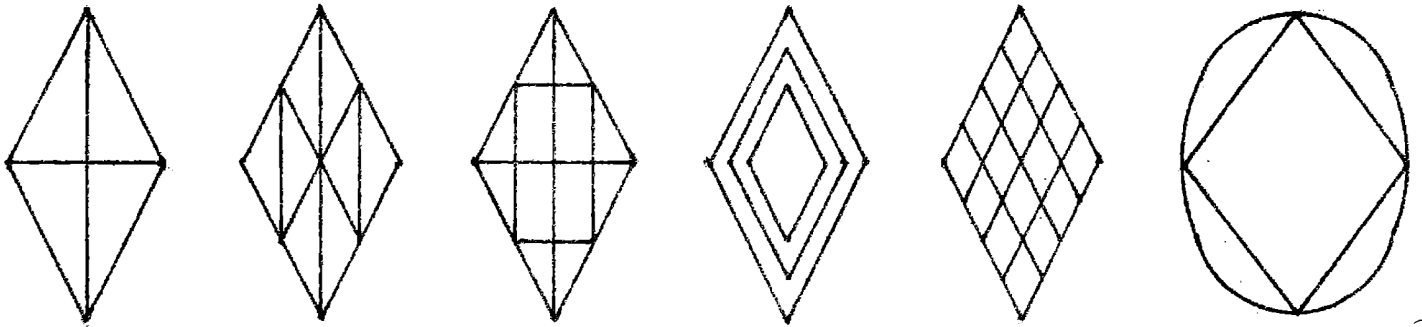
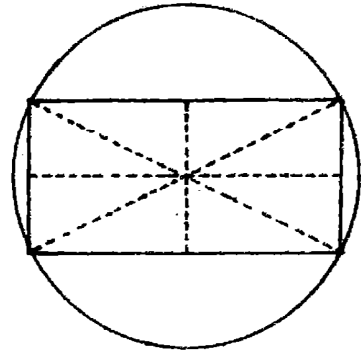
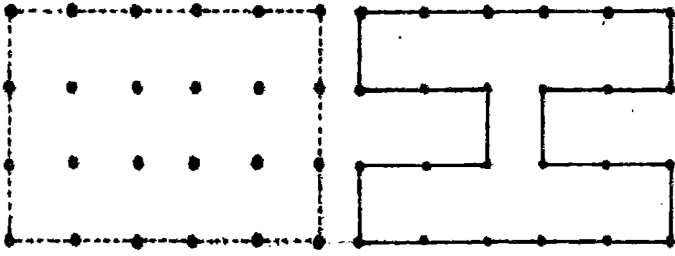
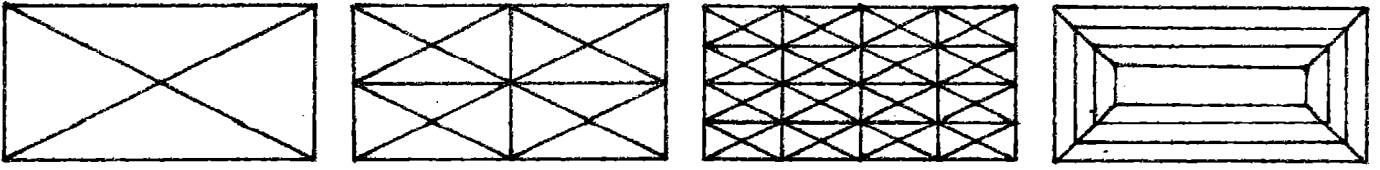
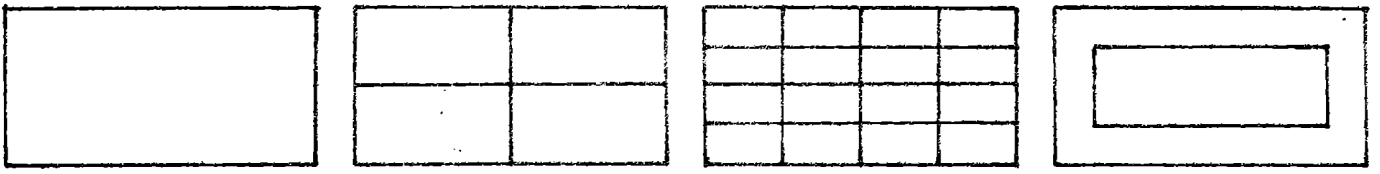


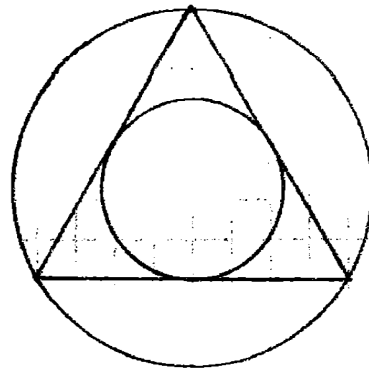
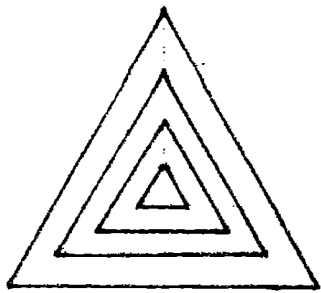
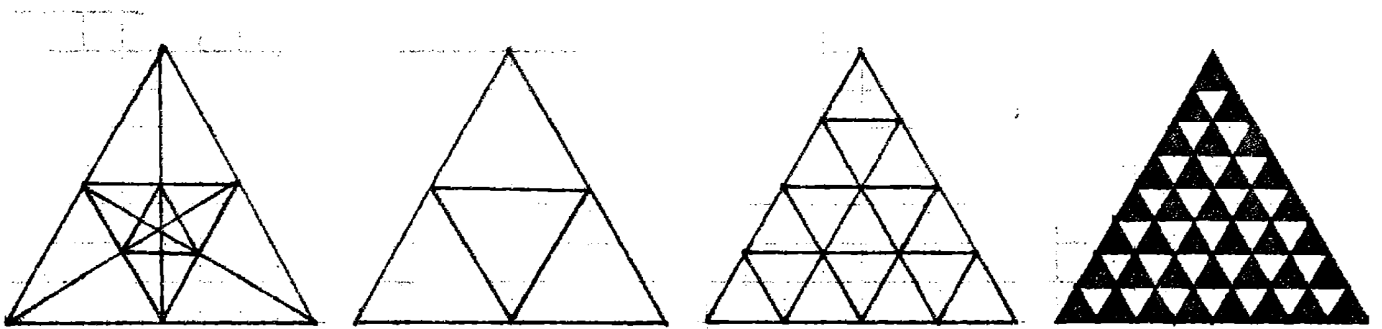
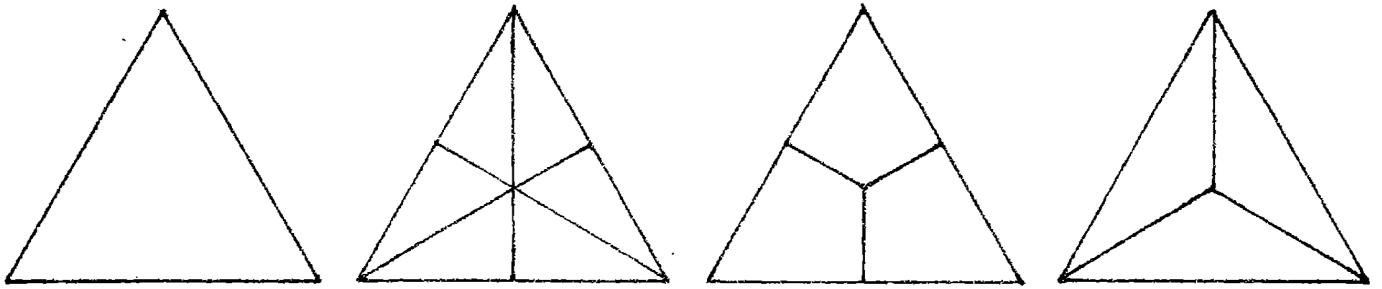
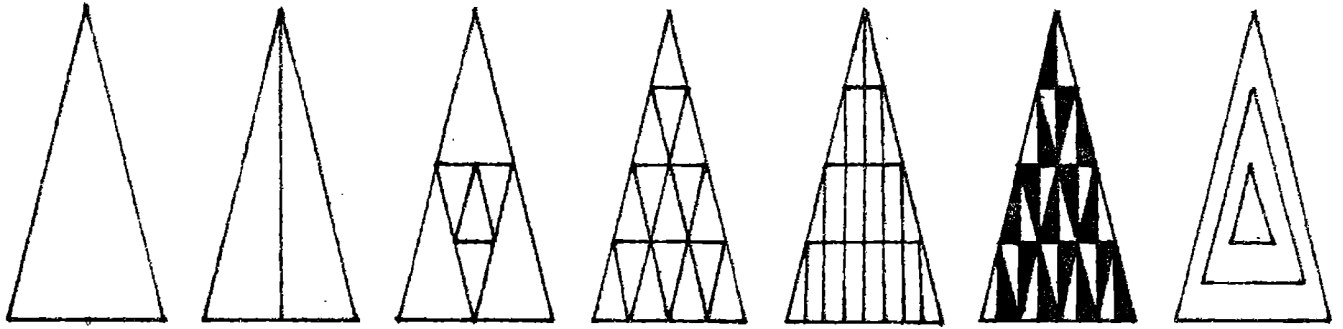
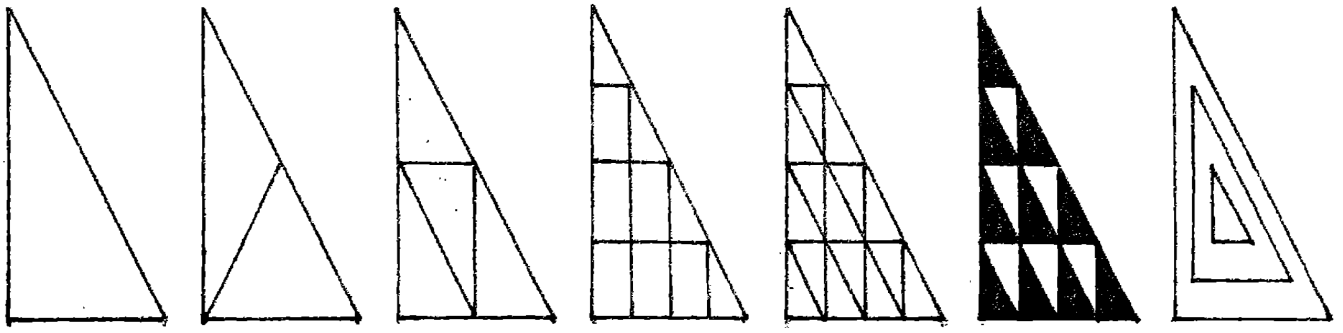
pour garder toute l'esthétique à ces recherches graphiques nous aurions dû pouvoir en assurer la reproduction par le procédé offset d'un coût malheureusement trop élevé pour le budget qui est le nôtre.

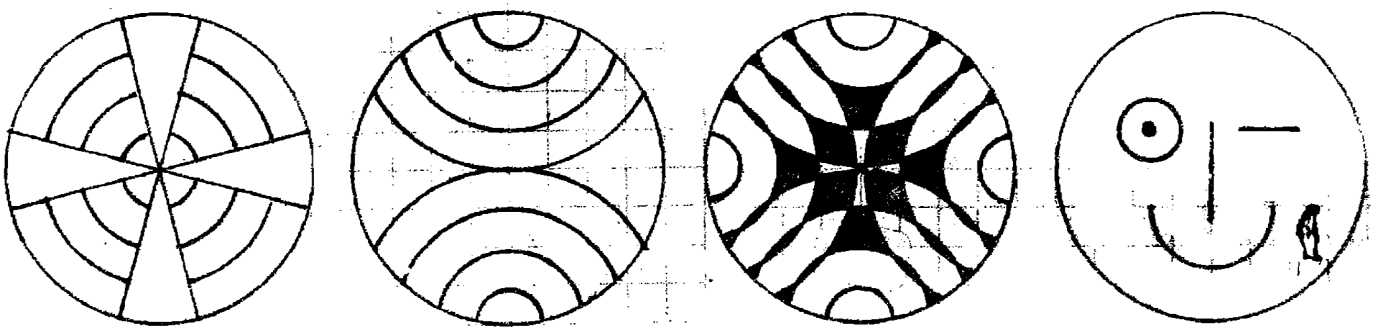
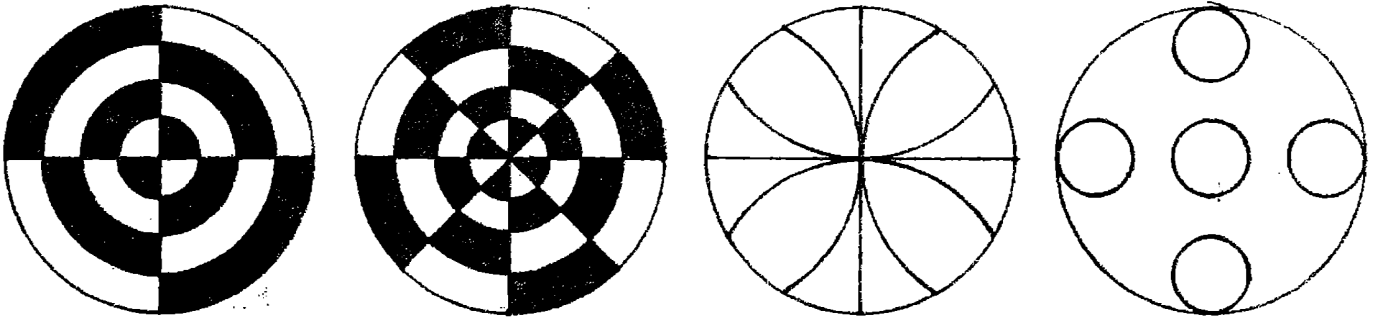
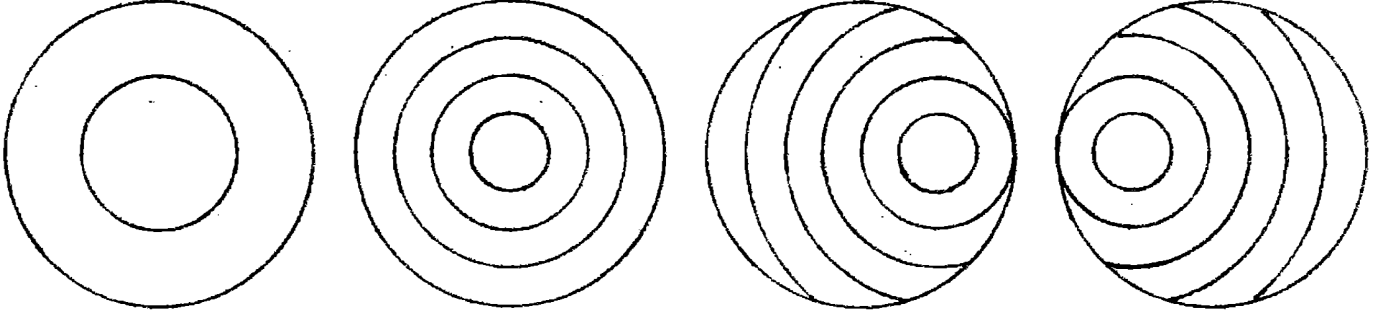
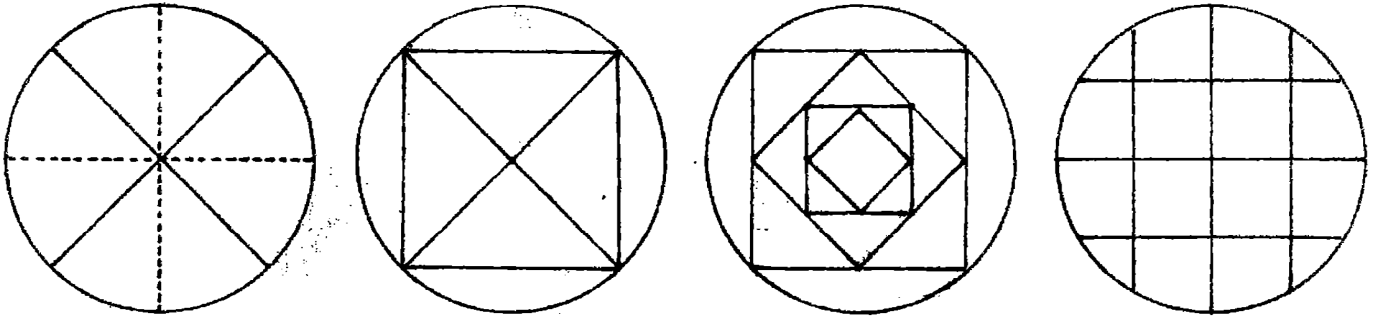
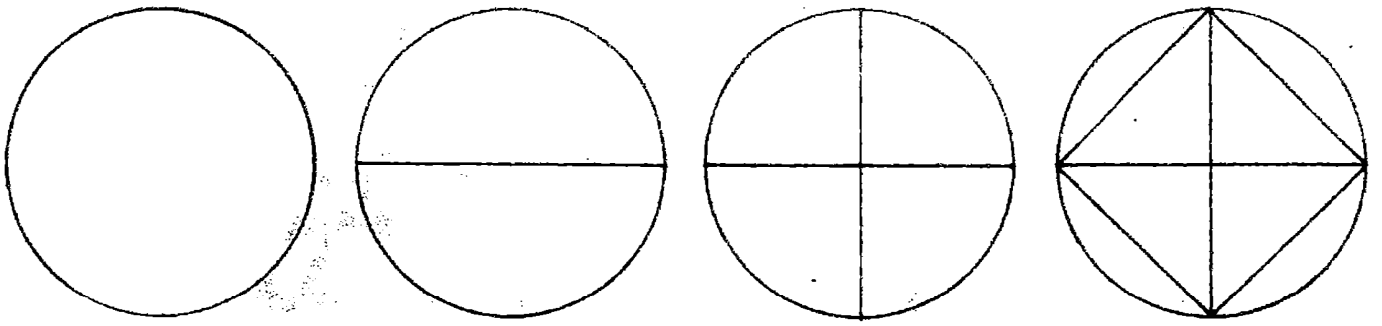
d'autre part des difficultés rencontrées à la gravure des stencils électroniques réduisent encore la qualité de ce dossier. nous le regrettons vivement.

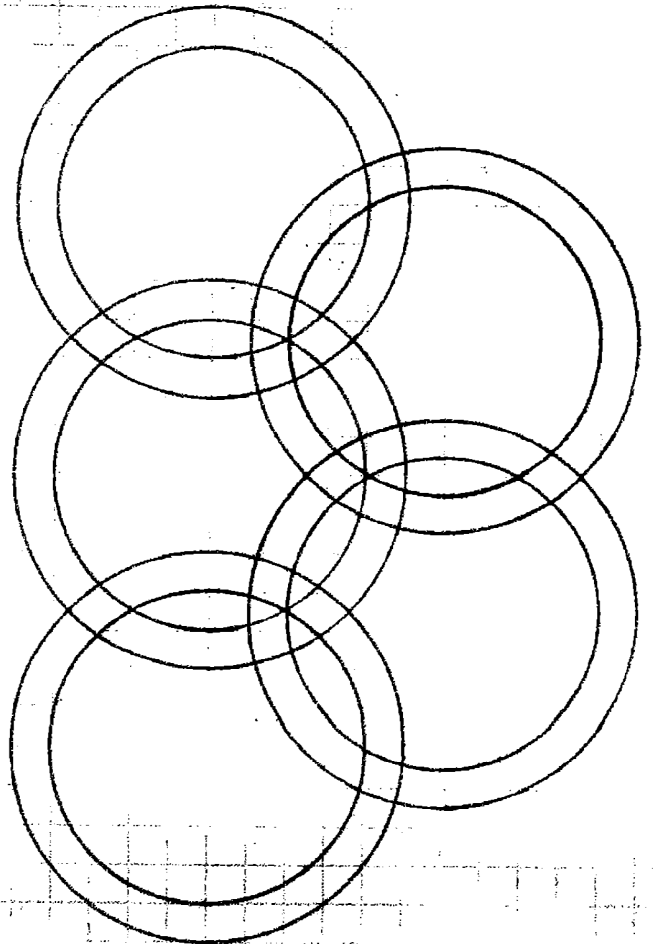
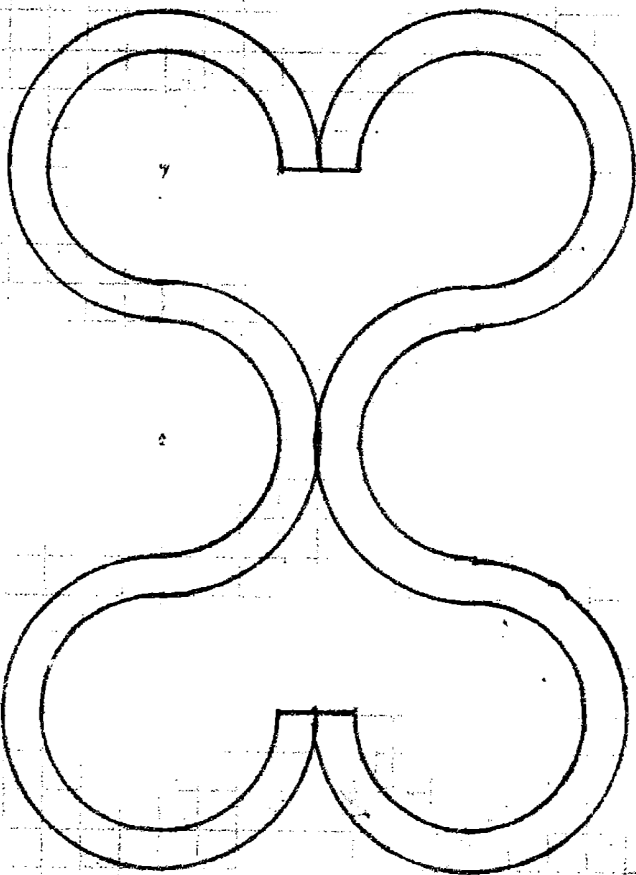
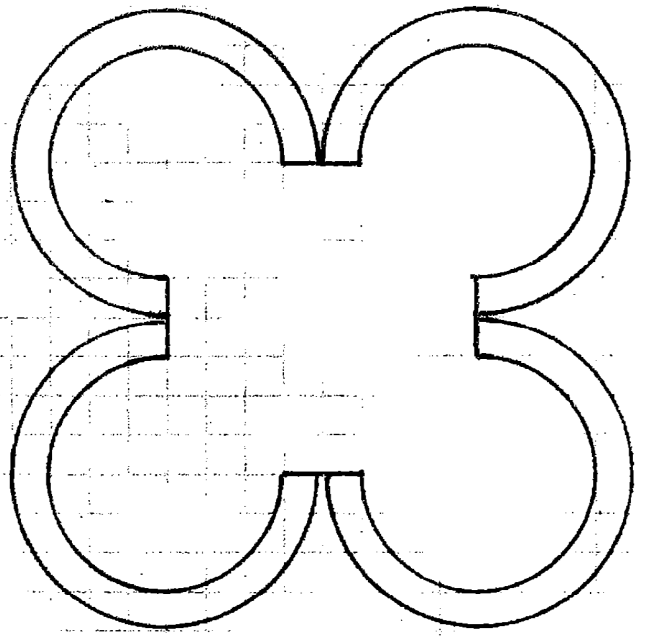
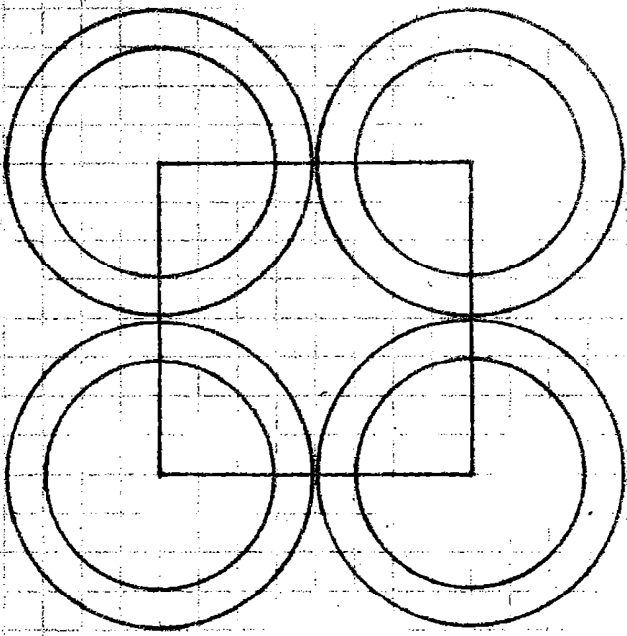


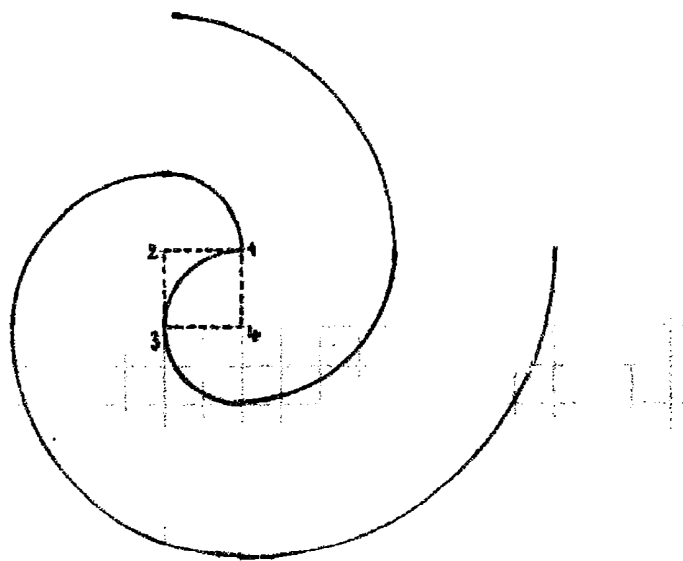
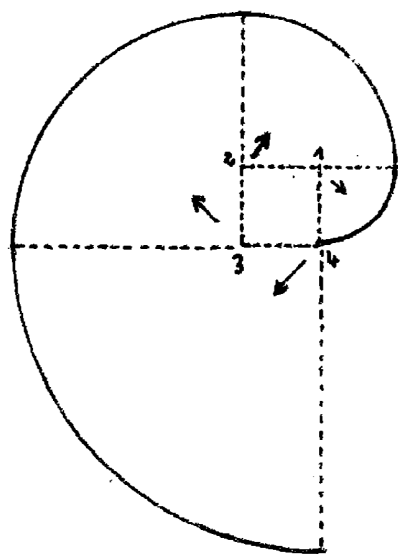
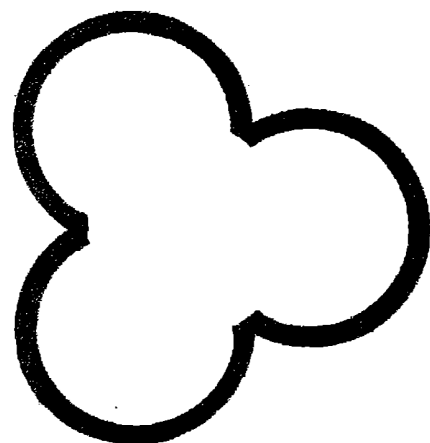
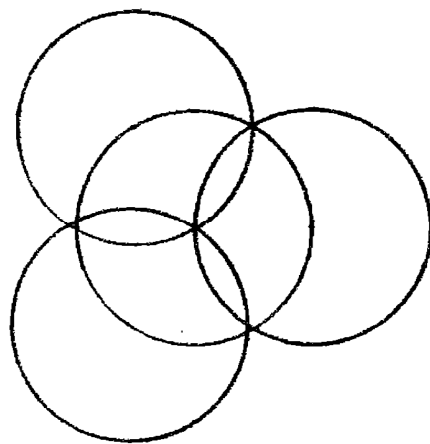
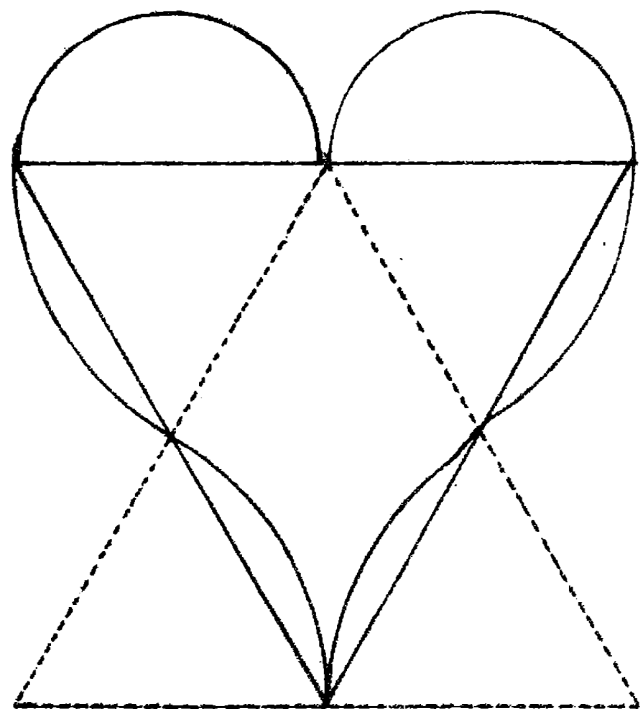
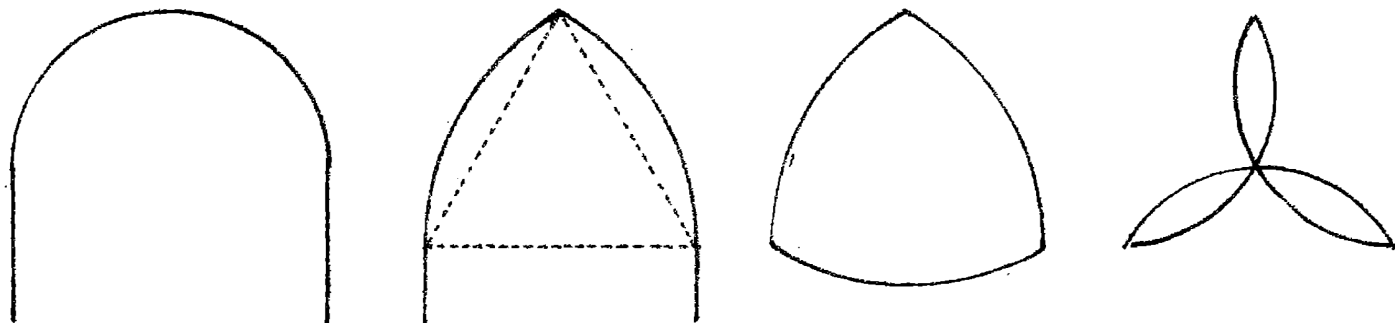


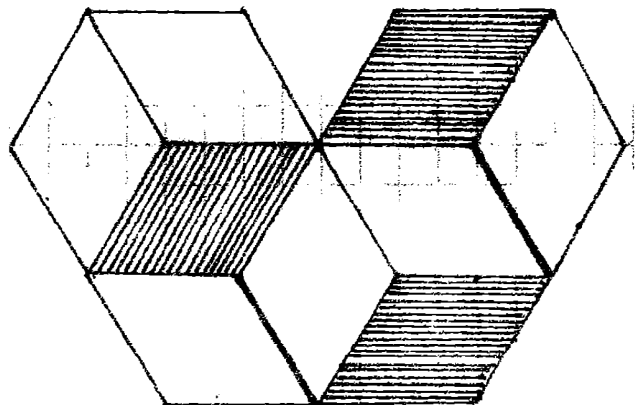
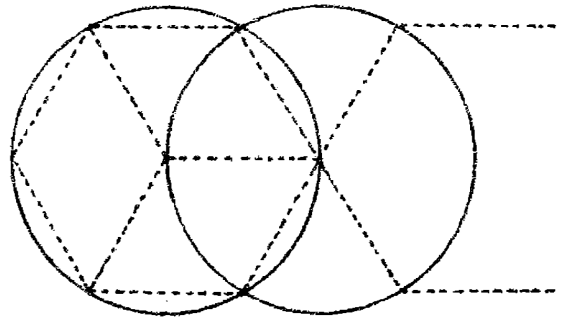
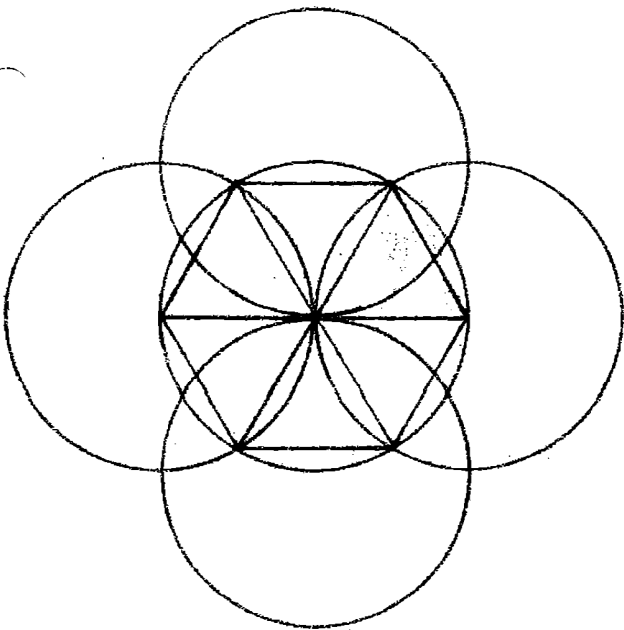
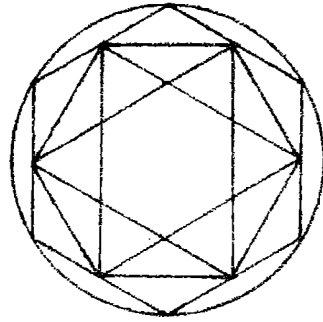
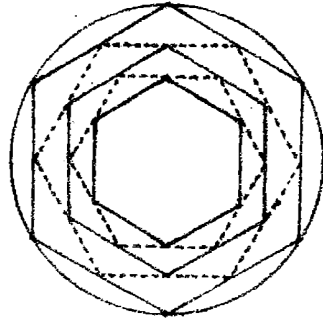
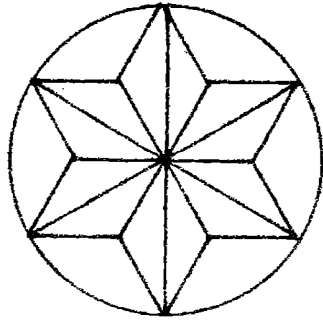
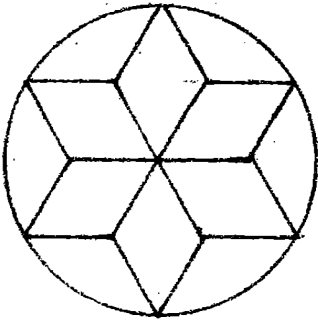
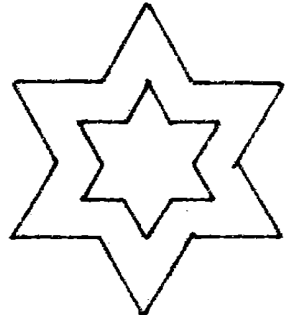
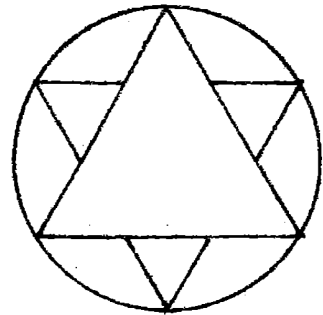
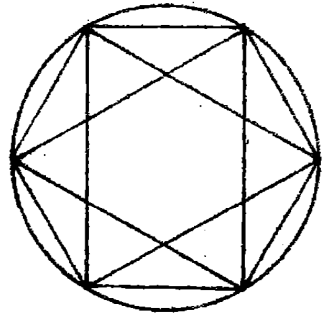
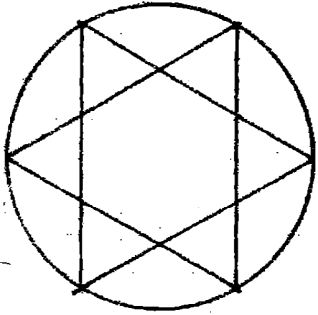
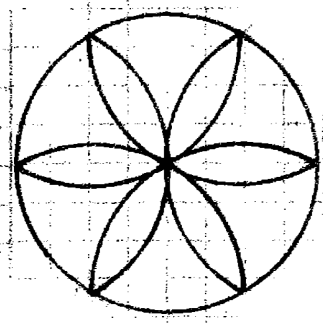
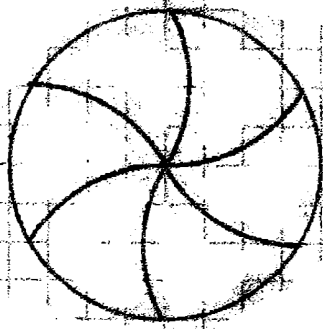
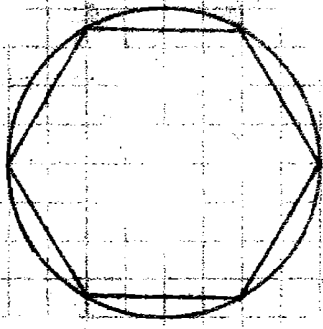
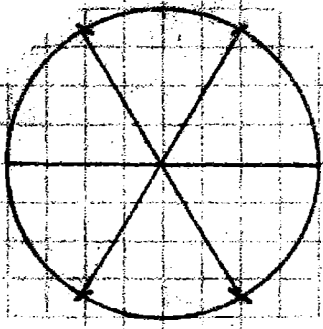


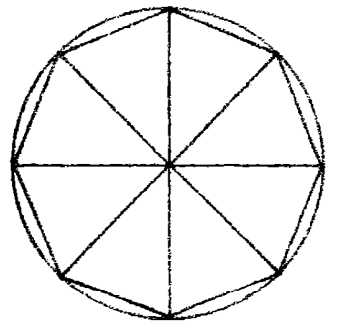
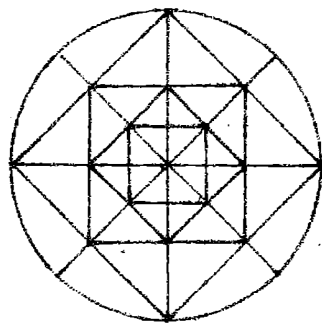
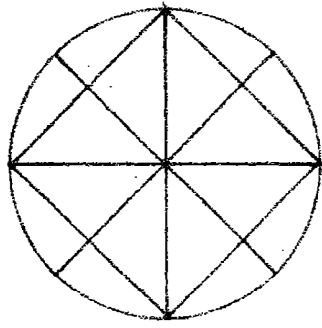
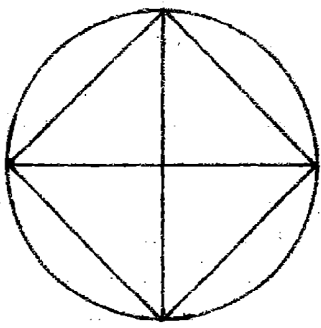




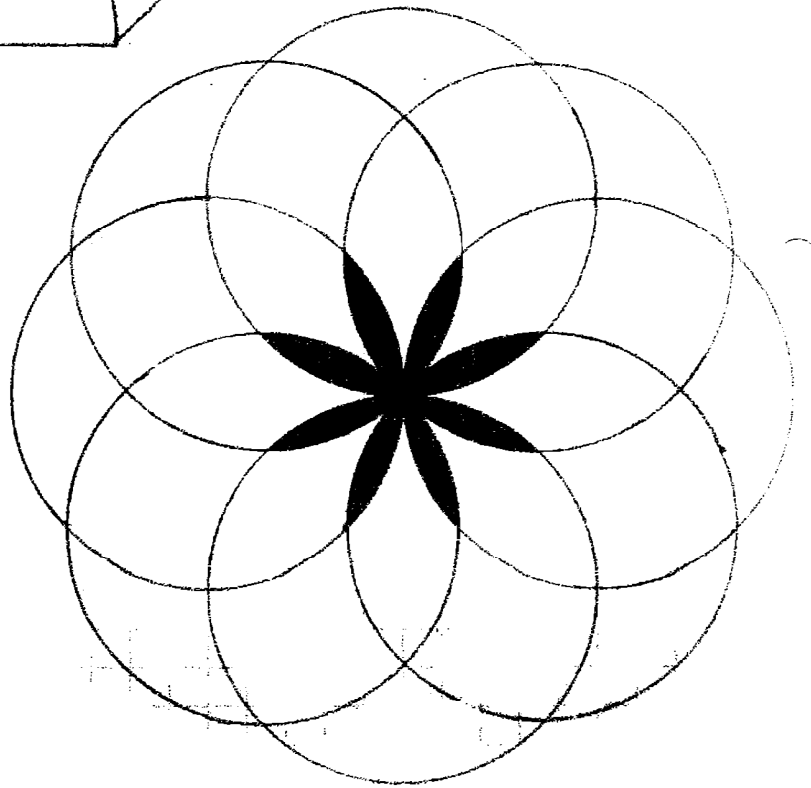
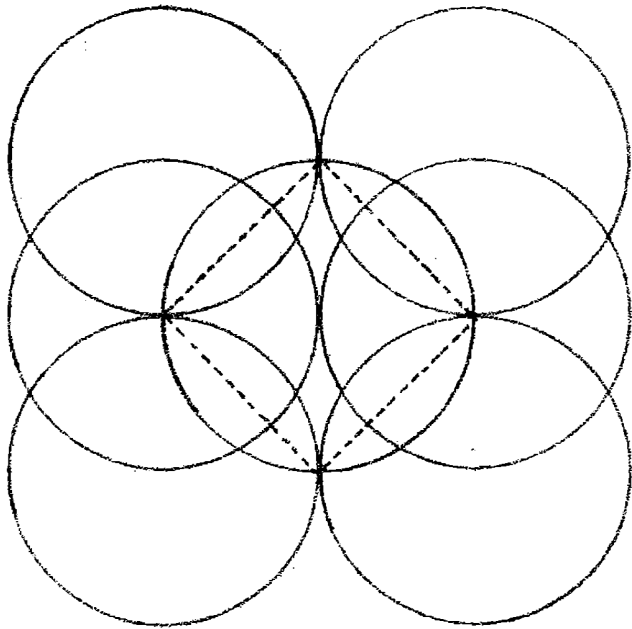
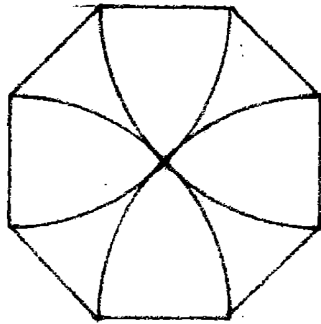
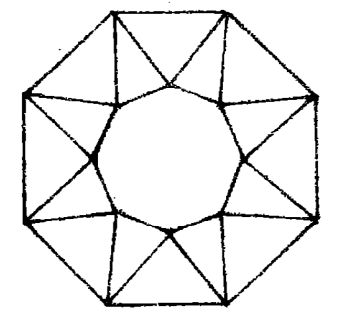
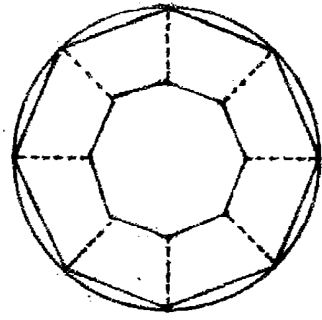
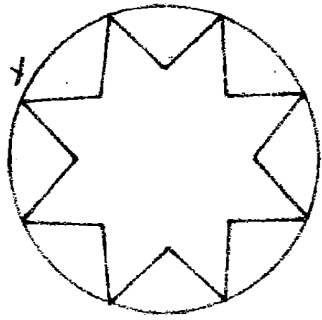
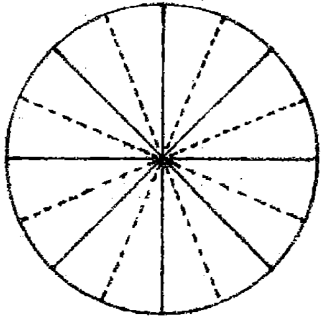


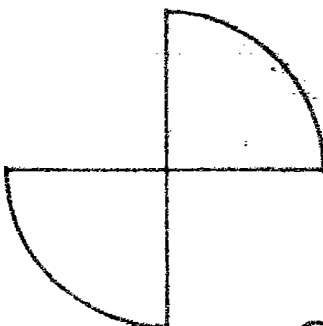
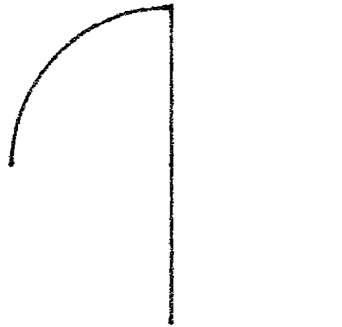
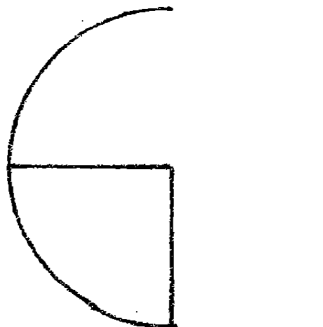
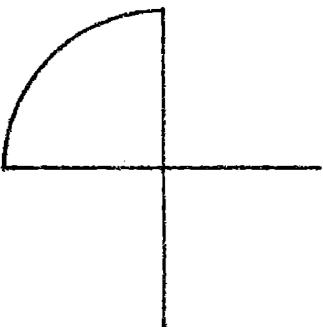
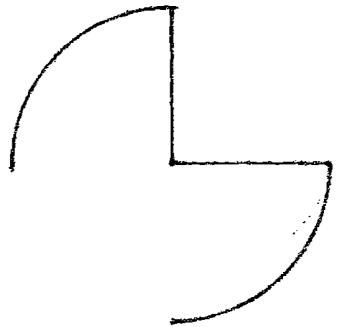
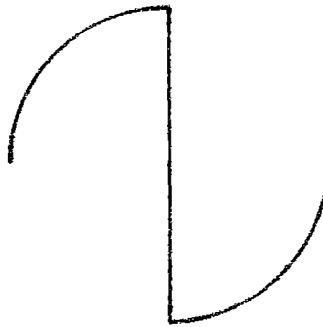
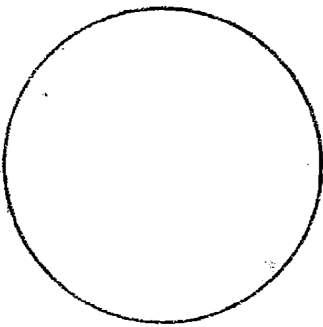
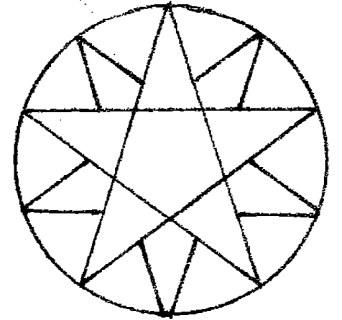
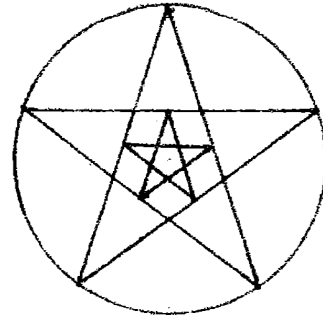
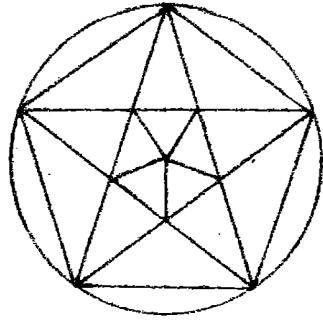
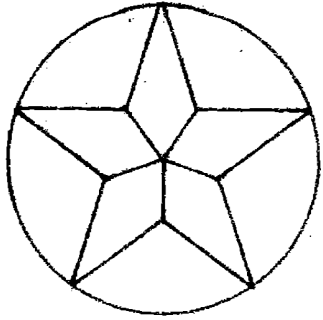
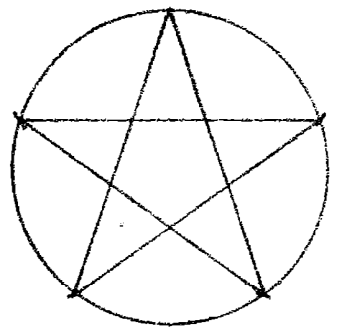
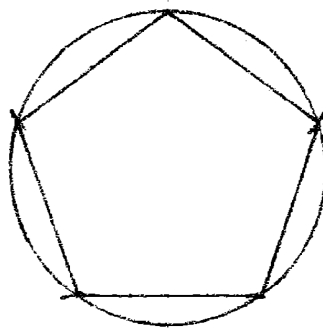
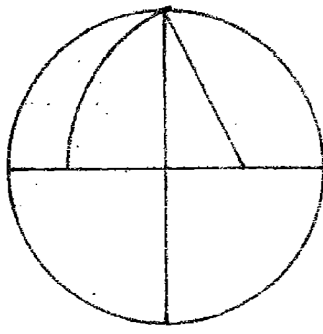
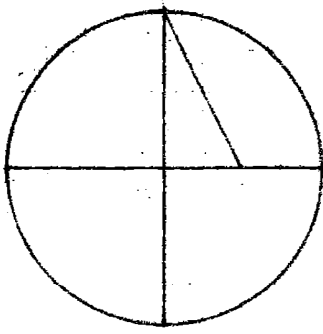


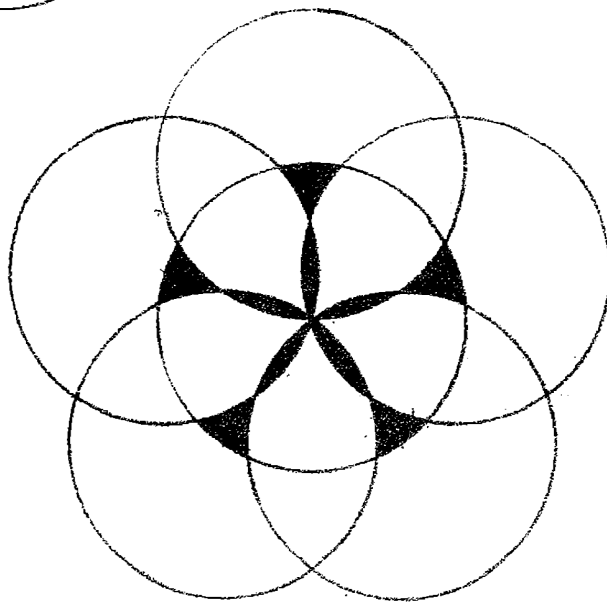
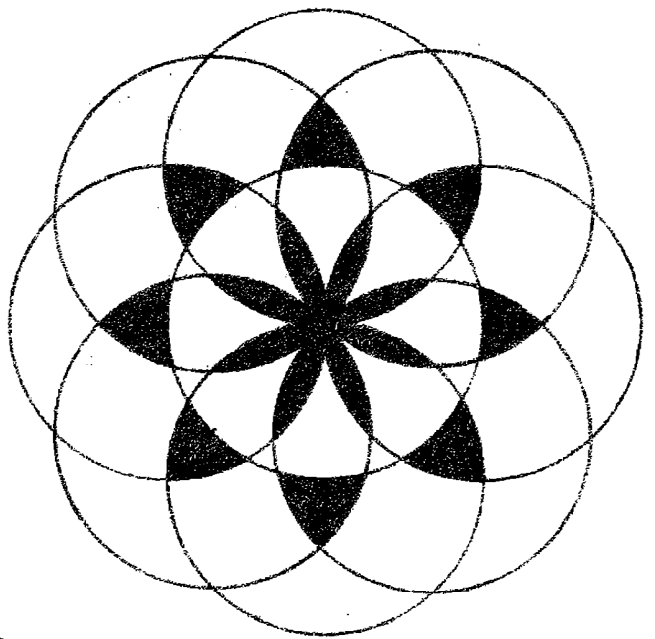
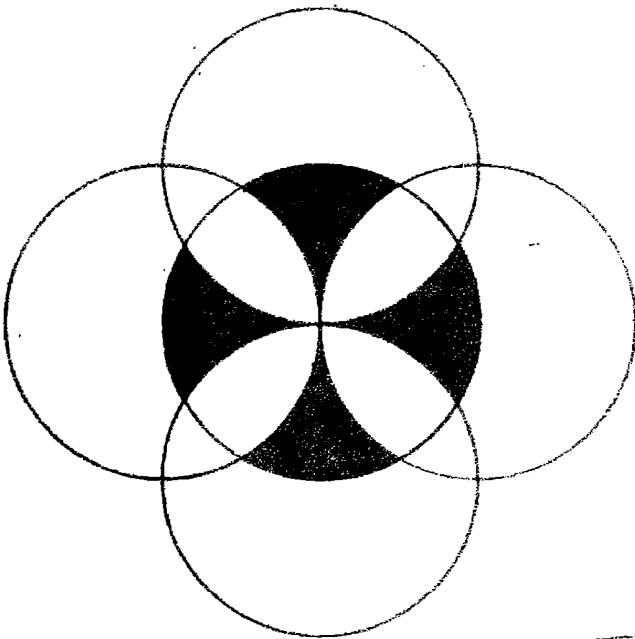
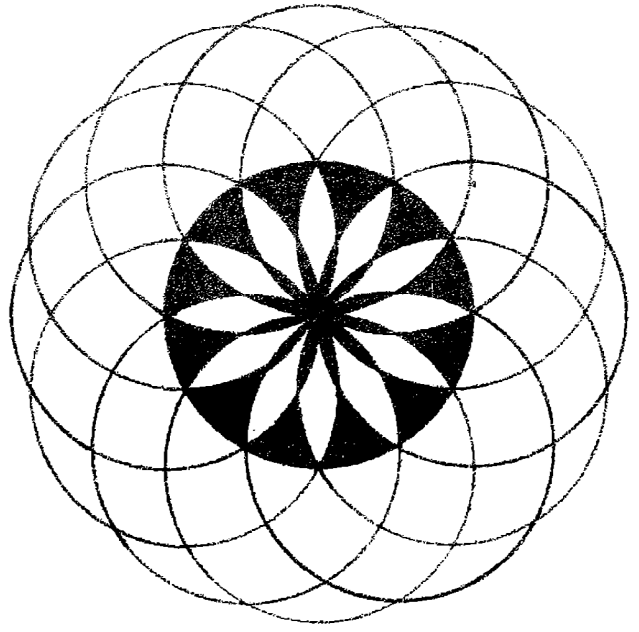
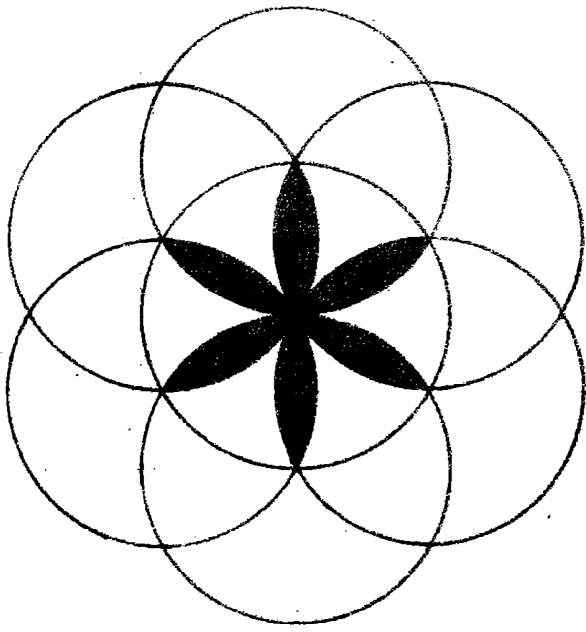


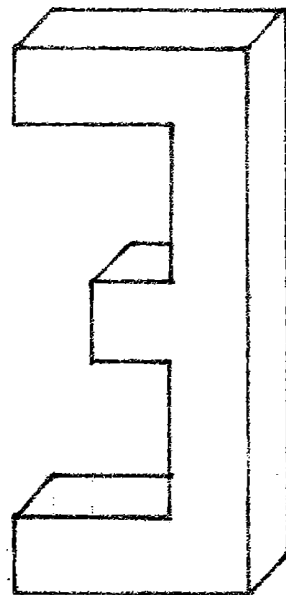
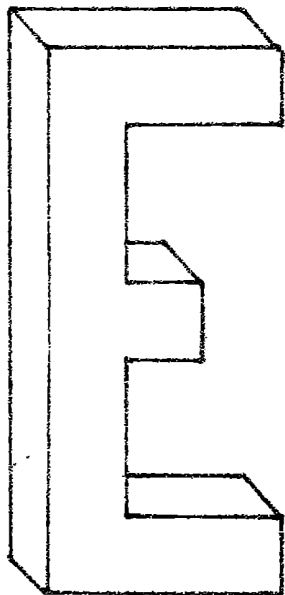
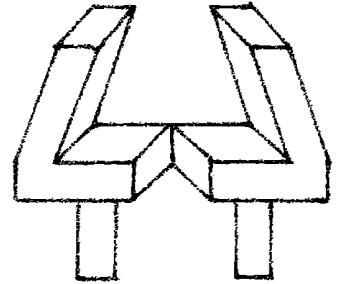
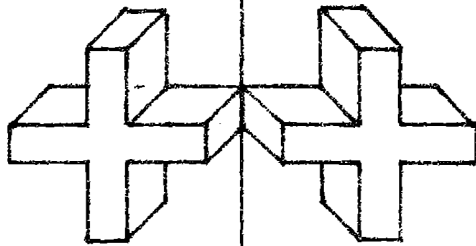
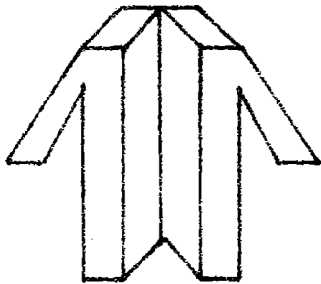
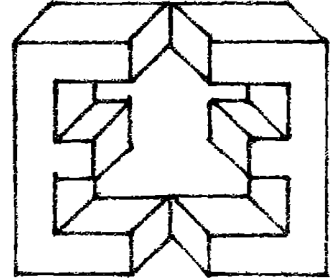
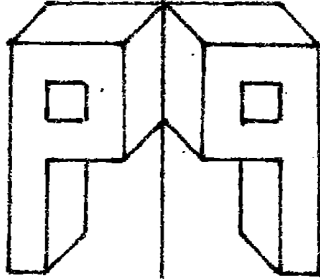
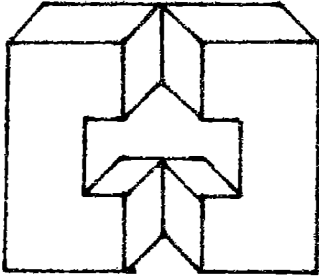
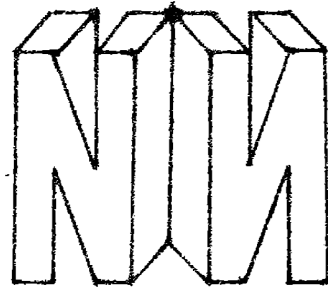
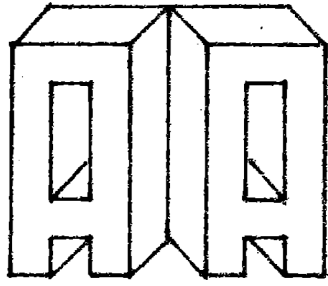


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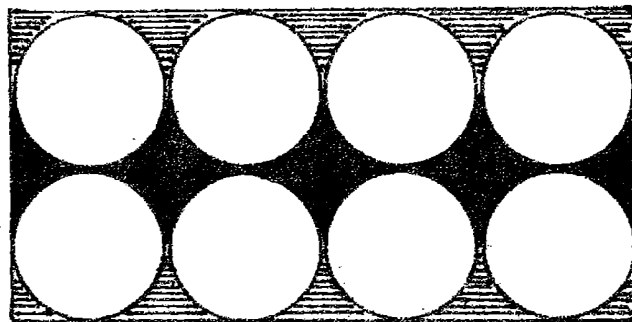
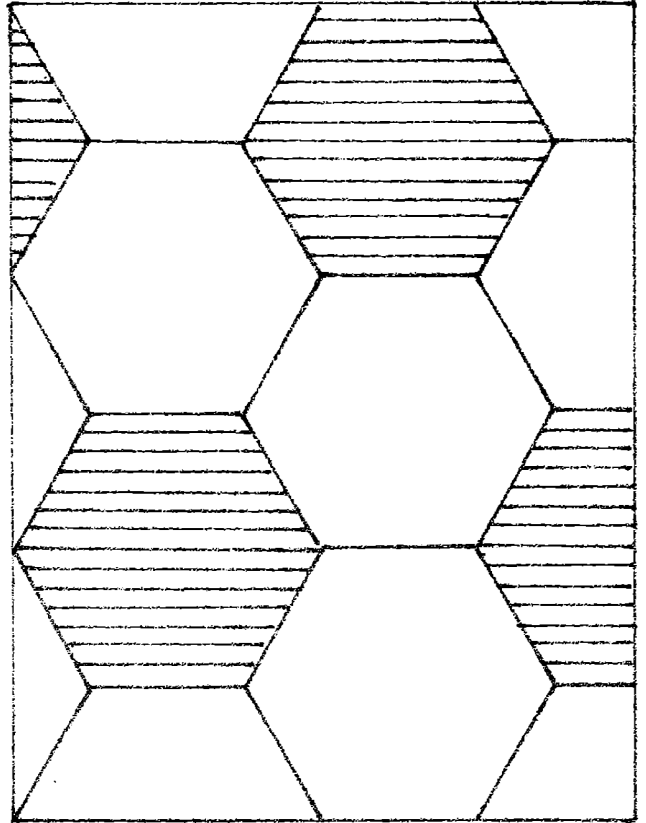
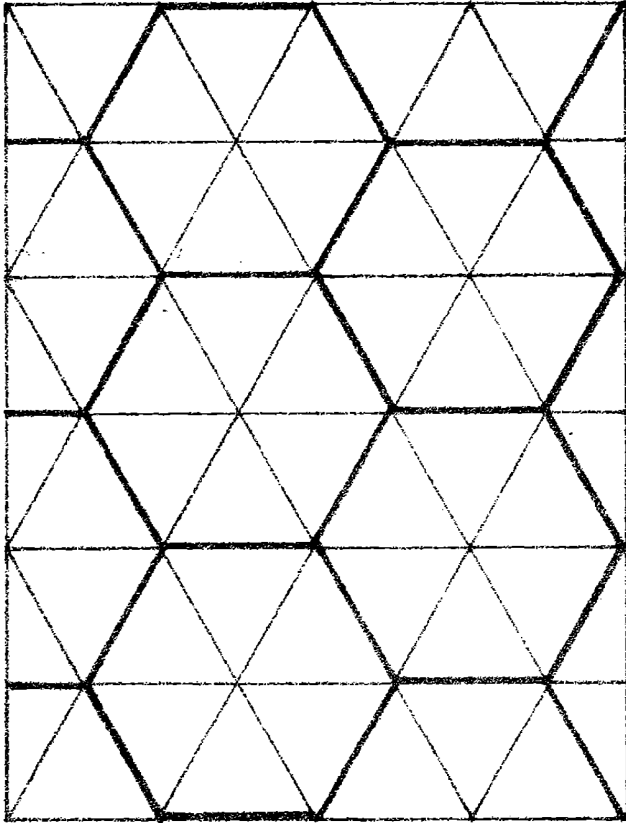
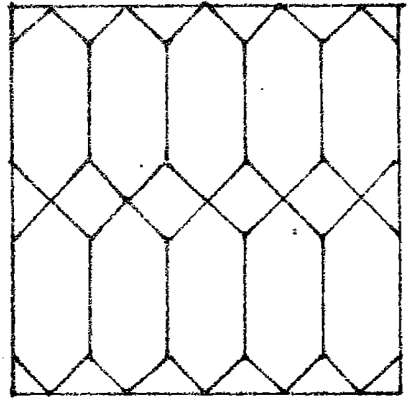
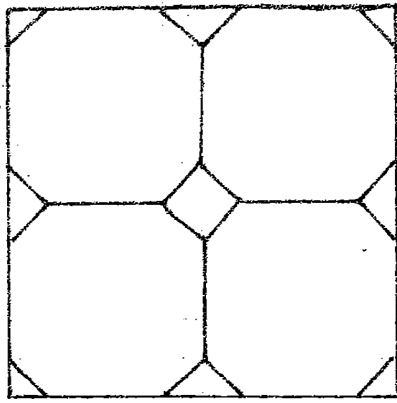
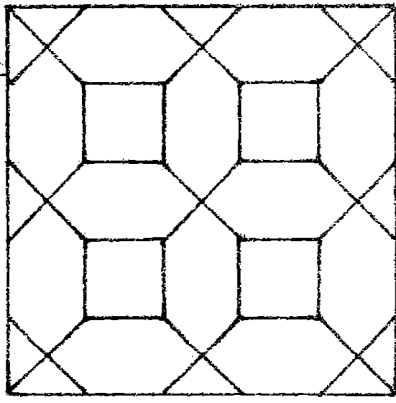


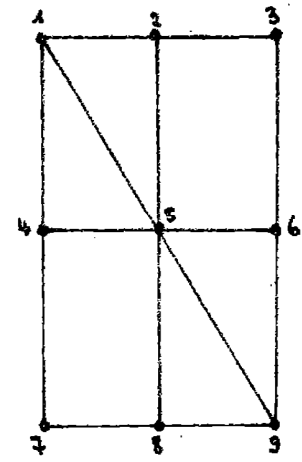
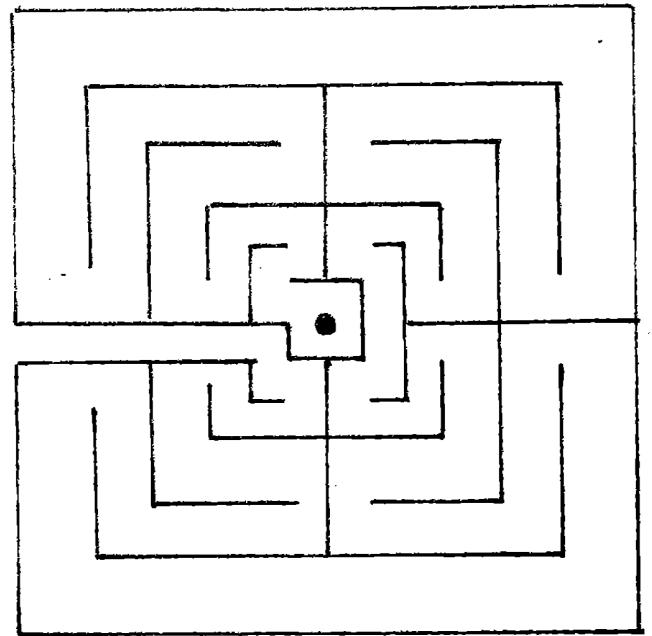
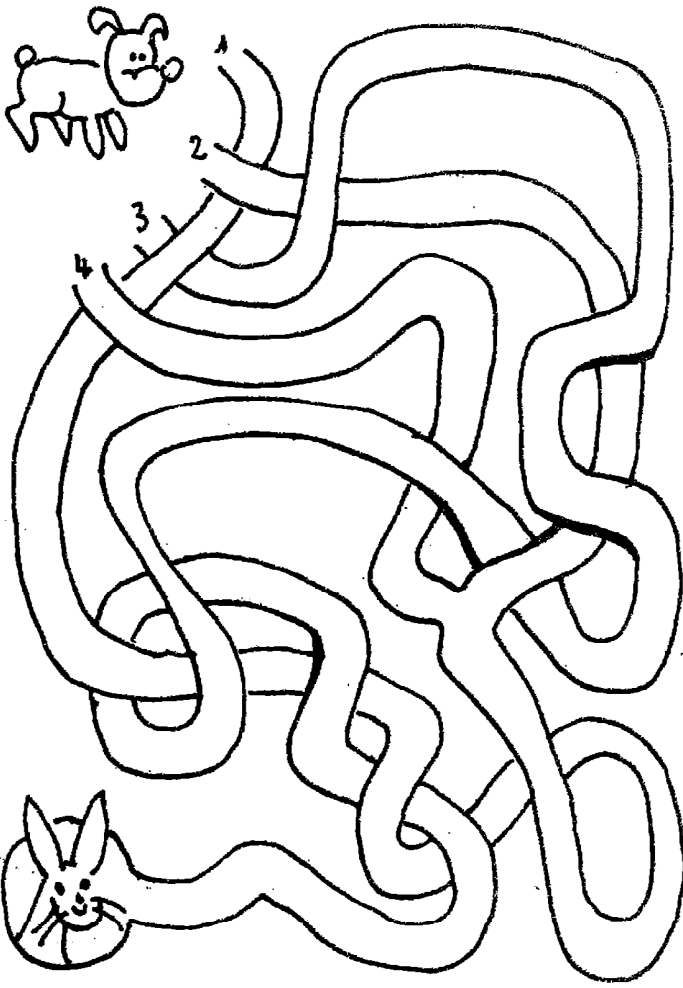




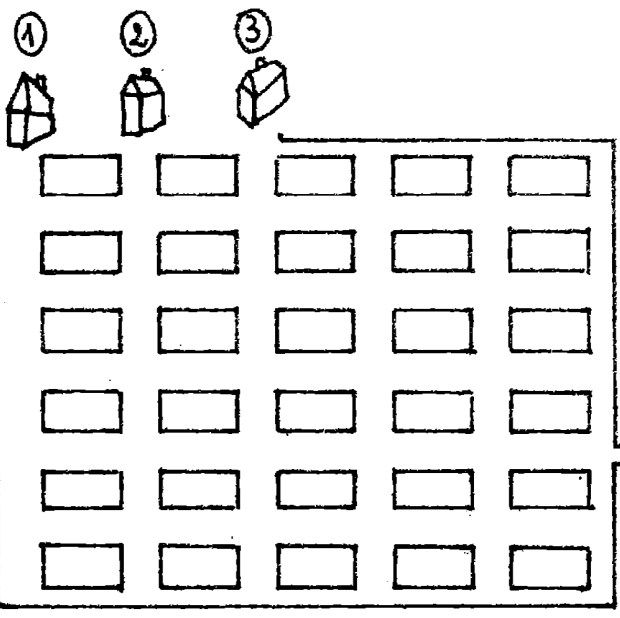


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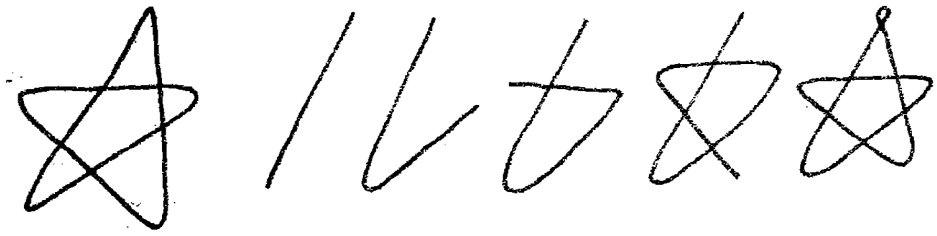
Des lettres sont cachées, lesquelles ?



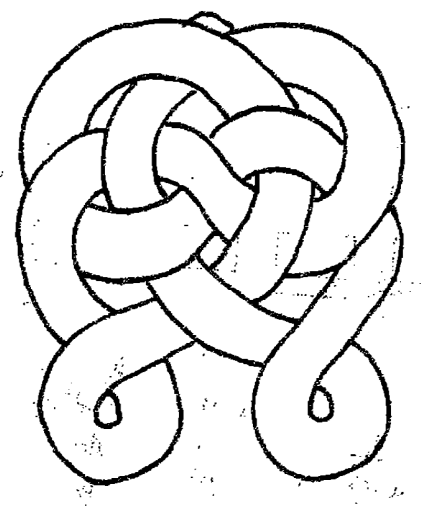
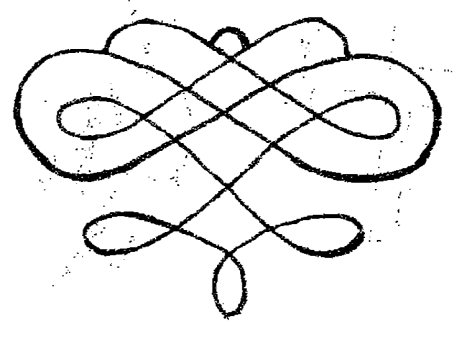
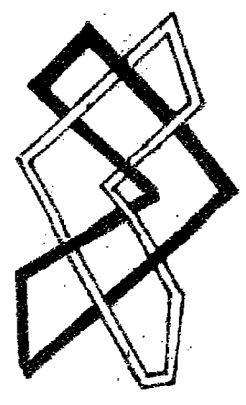
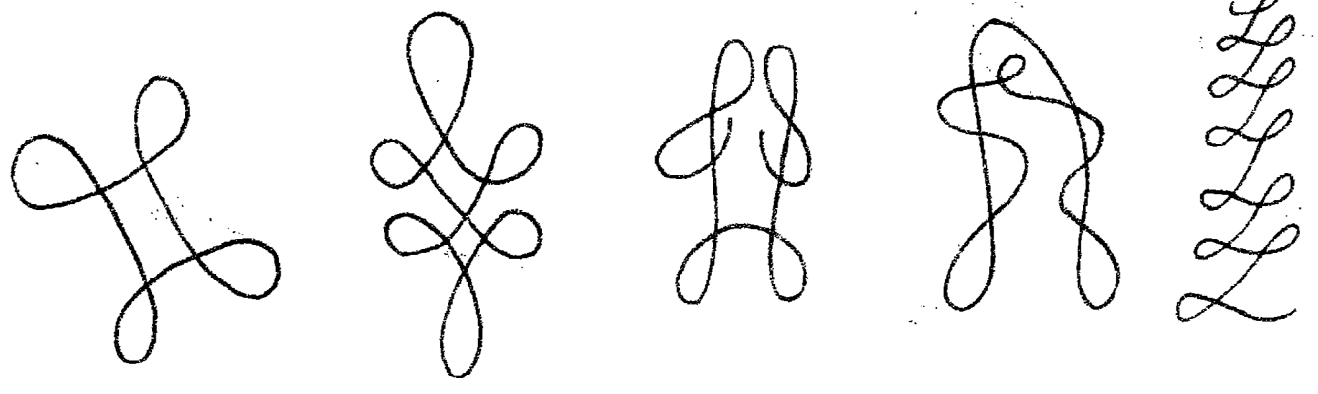
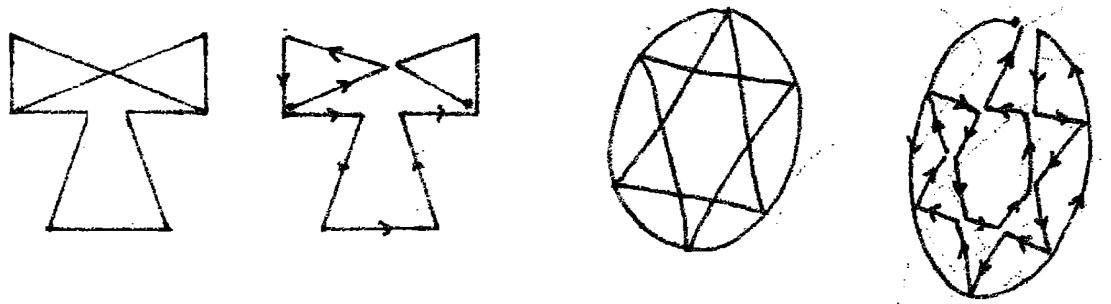
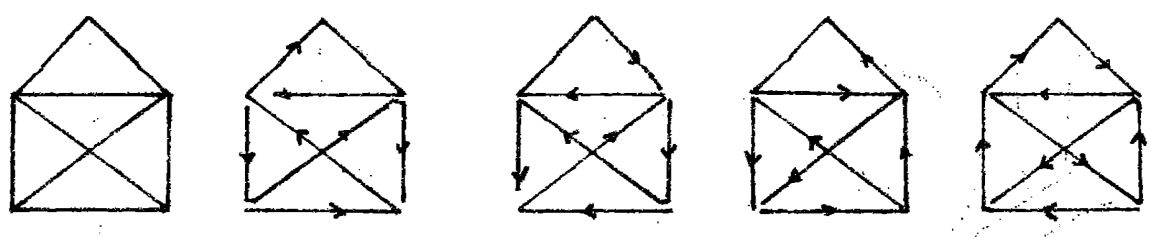
Où habite le petit bonhomme ?

Il prend tout de suite à droite, puis la 2^e à gauche, la 1^{ère} à gauche, la 1^{ère} à droite, la 2^e à droite, la 1^{ère} à gauche, la 1^{ère} à droite puis tout droit.

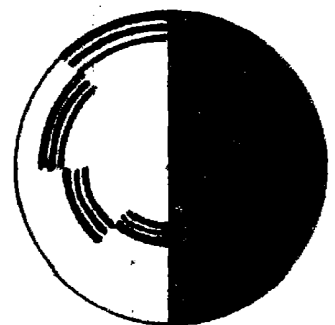
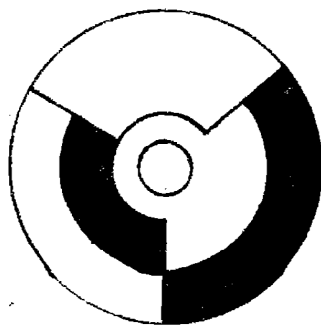
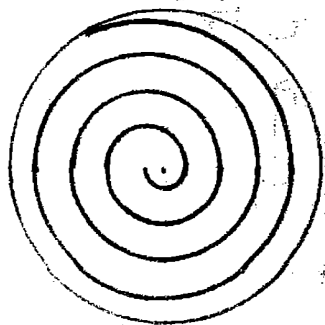
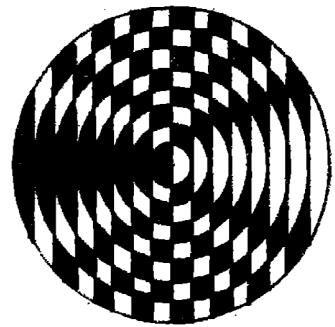
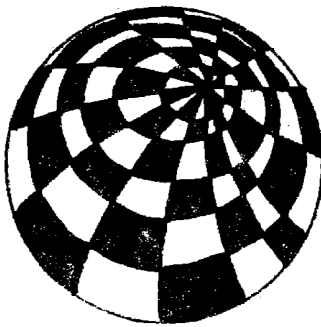
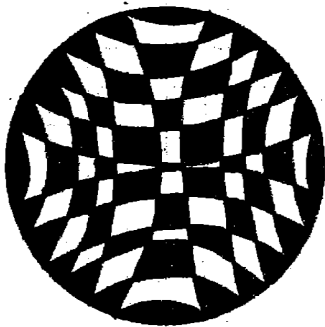
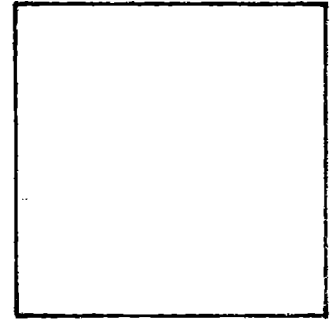
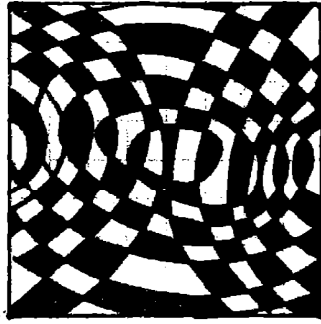
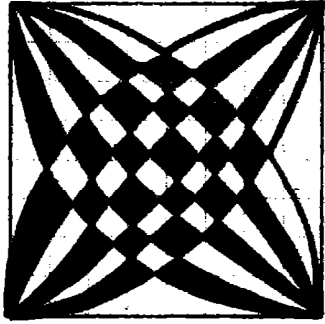
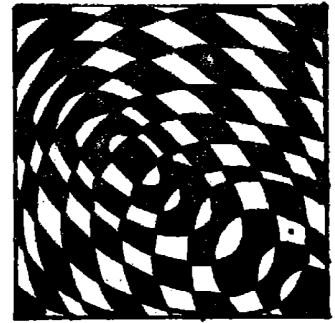
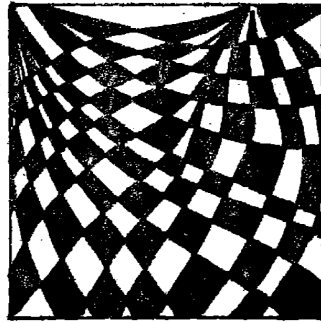
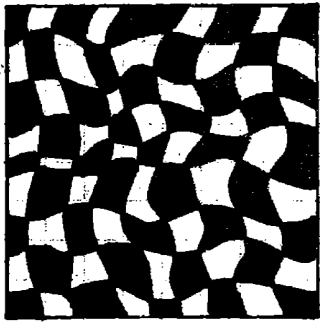


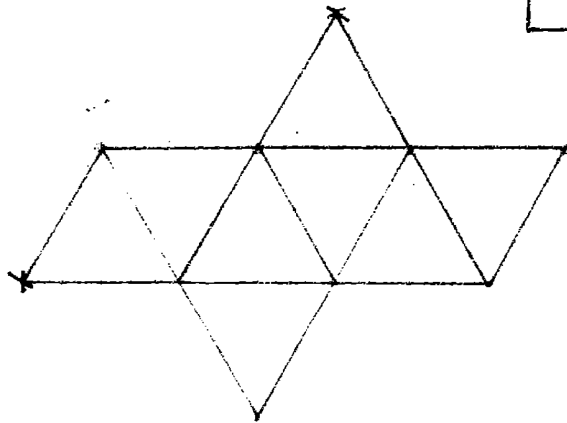
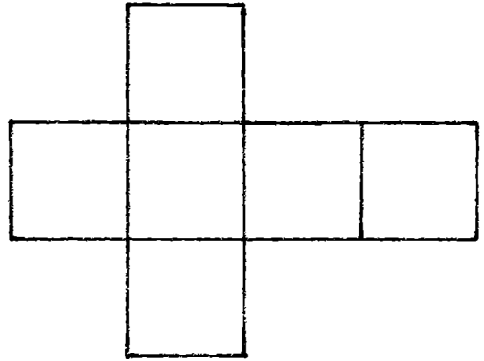
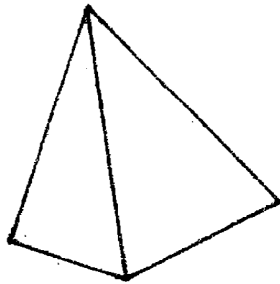
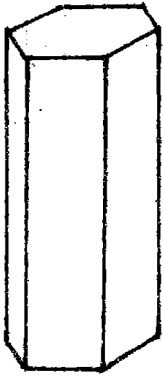
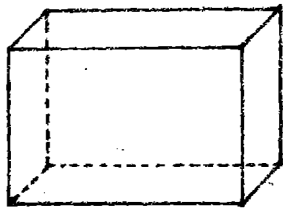
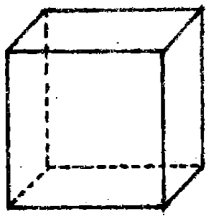


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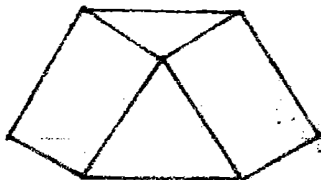
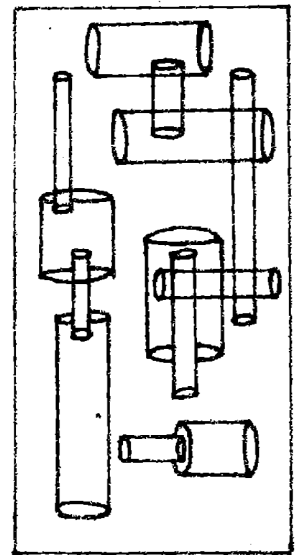
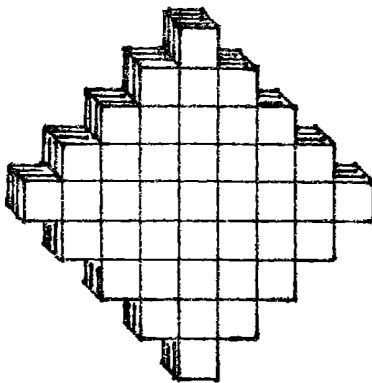
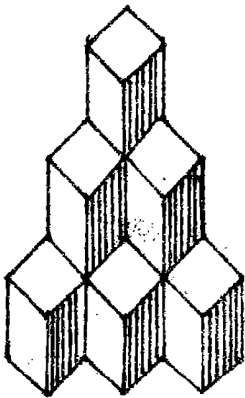


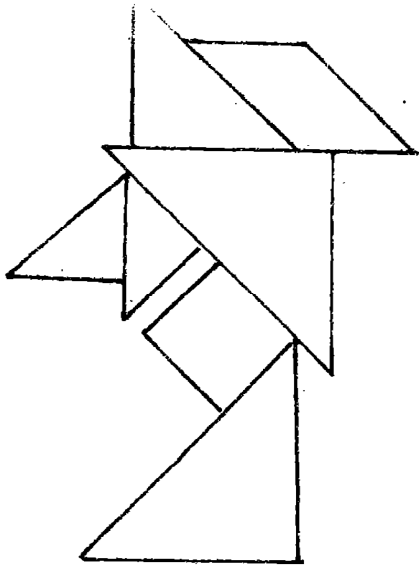
dessin de chaise.
musée alsacien de Strasbourg.



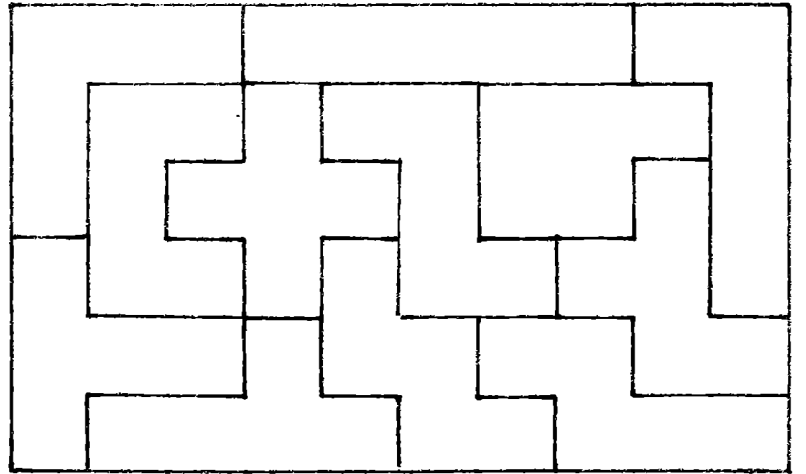


*de livres de livres recherches
et créations mathématiques*

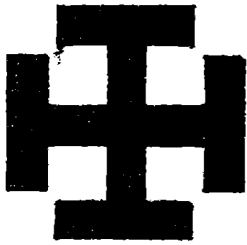




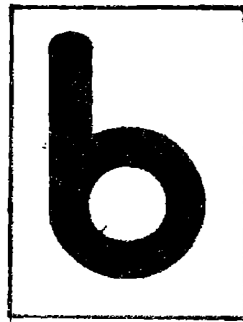
tangram



pentomino



croix



alphabet

