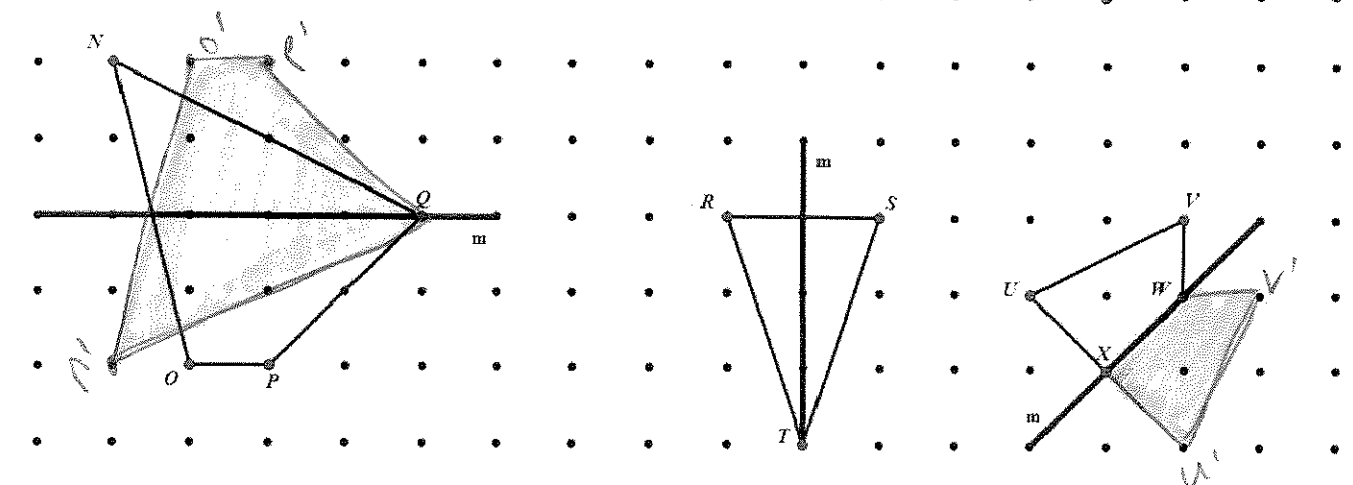
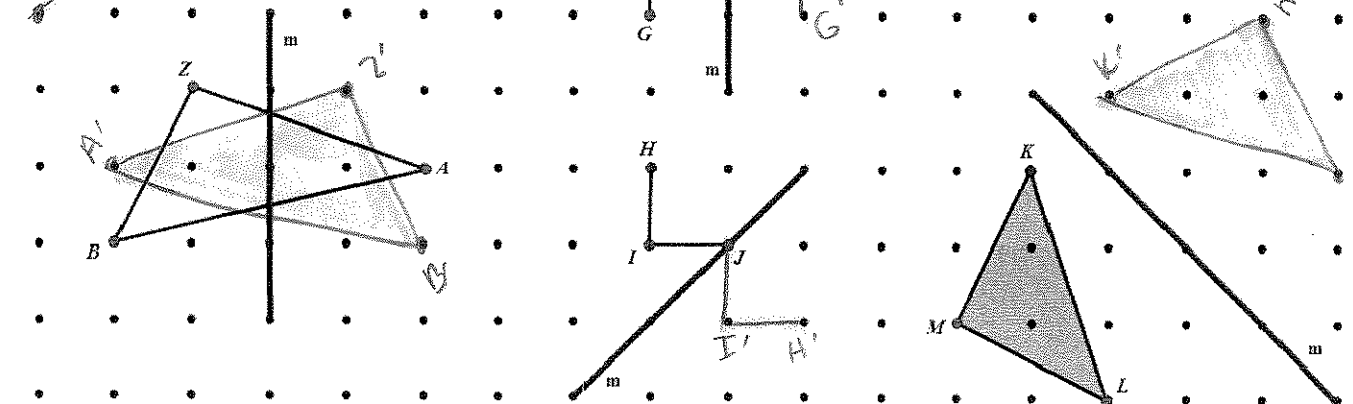
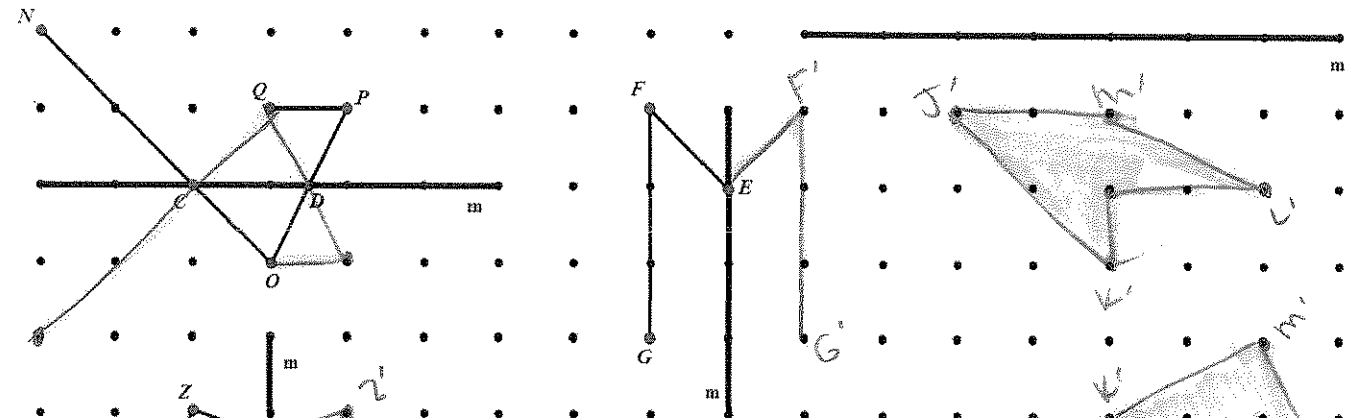
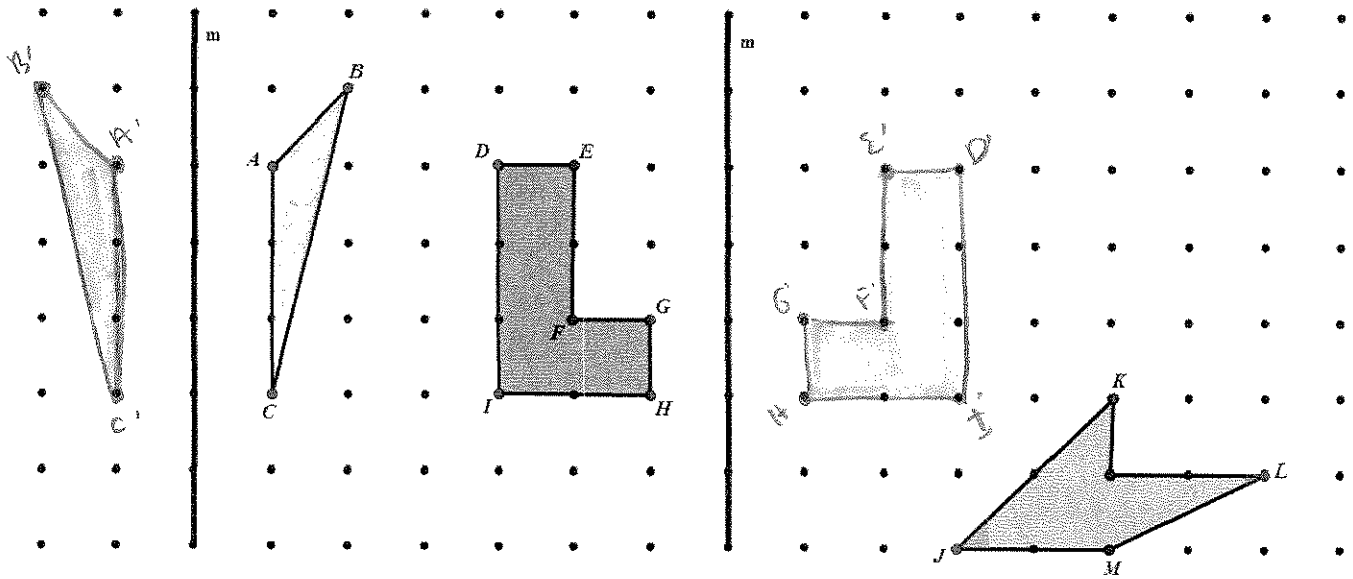
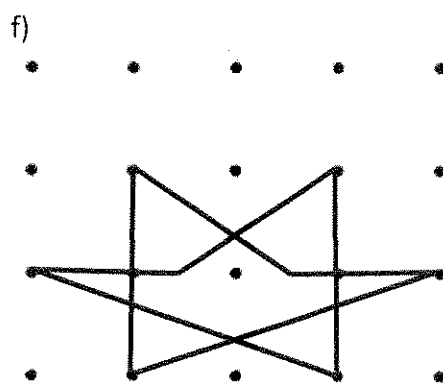
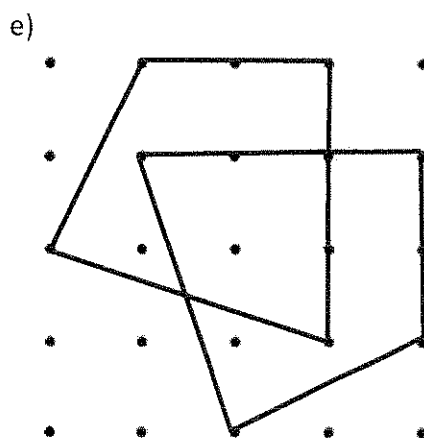
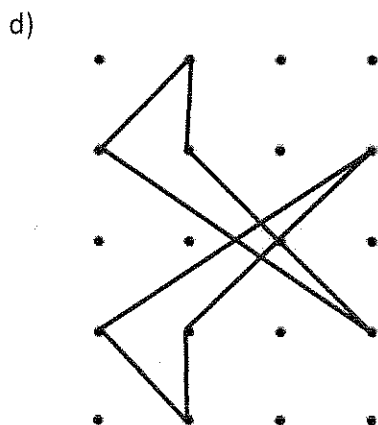
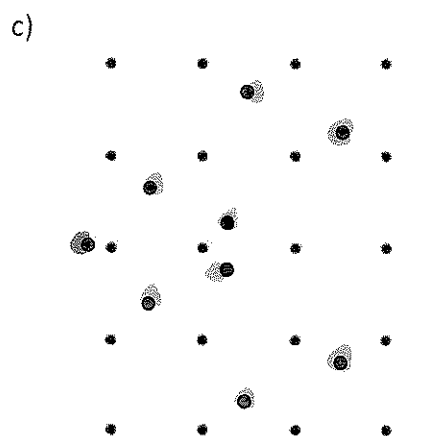
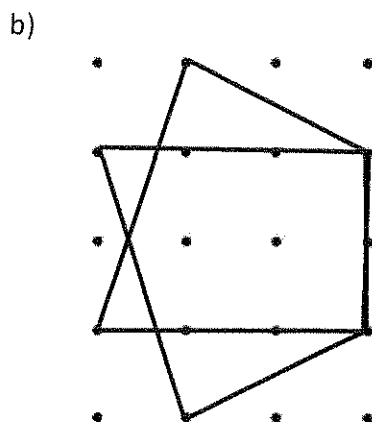
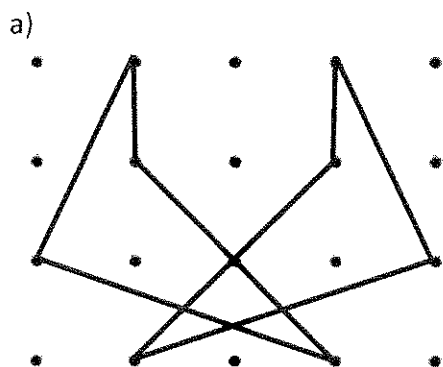


1. Use the grid or patty paper to reflect the following figures over their respective line m . Label the image.



2. Determine the line of reflection for the following pre-image and images.



3. What does $R_{x=3}$ mean to you?

reflection over $x=3$

4. Determine the pre-image coordinates, then reflect it, and determine the image coordinates.

a) $A = (-8, -2)$ $R_{x \text{ axis}}(A)$ $A' = (-8, 2)$

b) $B = (-4, 2)$ $R_{y \text{ axis}}(B)$ $B' = (4, 2)$

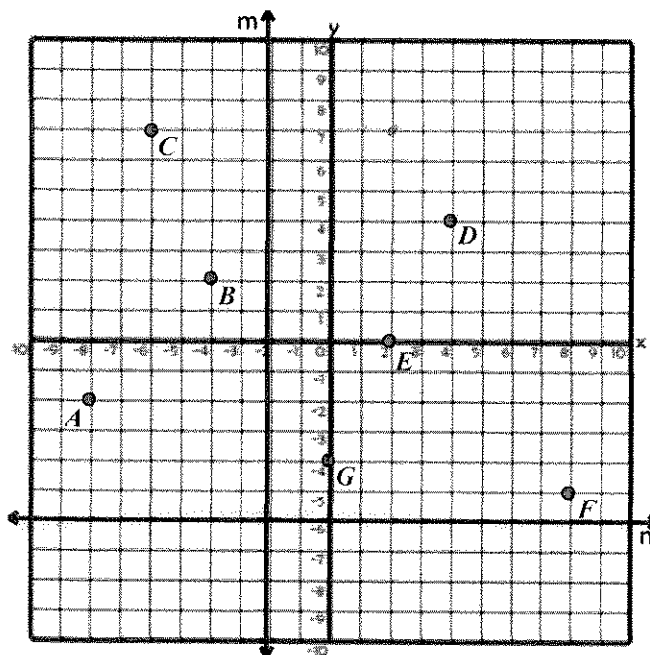
c) $C = (-6, 7)$ $R_m(C)$ $C' = (2, 7)$

d) $D = (4, 4)$ $R_{x \text{ axis}}(D)$ $D' = (4, -4)$

e) $E = (2, 0)$ $R_{x \text{ axis}}(E)$ $E' = (2, 0)$

f) $F = (8, -5)$ $R_n(F)$ $F' = (8, -7)$

g) $G = (0, 4)$ $R_{y \text{ axis}}(G)$ $G' = (0, -4)$



5. Determine the name of the point that meets the given conditions.

a) $R_m(A) = \underline{C}$

b) $R_h(C) = \underline{B}$

c) $R_h(D) = \underline{A}$

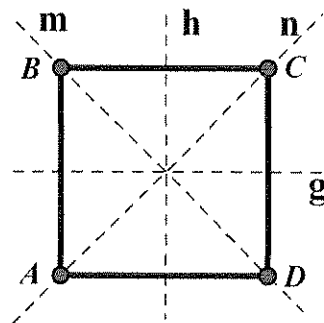
d) $R_g(\underline{A}) = B$

e) $R_n(D) = \underline{B}$

f) $R_n(B) = \underline{D}$

g) $R_m(D) = \underline{D}$

h) $R_m(\underline{A}) = C$



6. Determine the name of the point that meets the given conditions.

a) $R_m(A) = \underline{D}$

b) $R_{FC}(A) = \underline{E}$

c) $R_h(B) = \underline{E}$

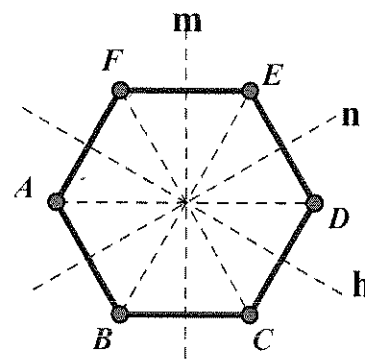
d) $R_{AD}(\underline{F}) = B$

e) $R_n(D) = \underline{E}$

f) $R_n(B) = \underline{A}$

g) $R_{FC}(D) = \underline{B}$

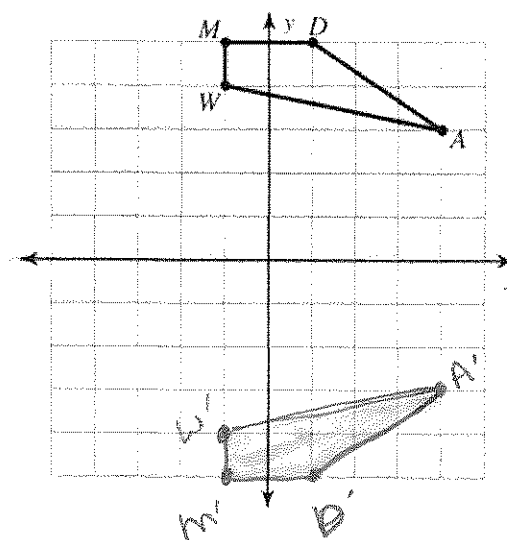
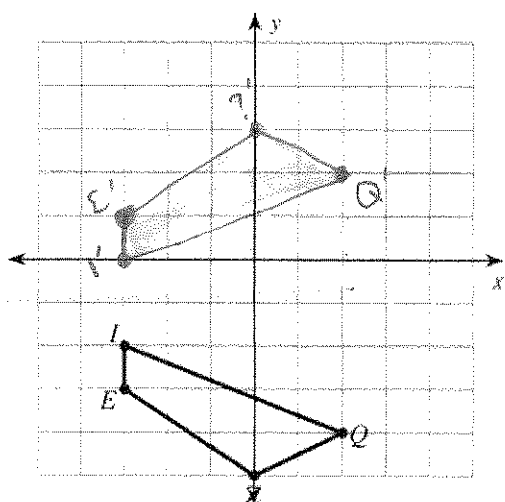
h) $R_{BE}(\underline{A}) = C$



7. Draw the line of reflection as a dotted line. Then graph the image and label its new coordinates.

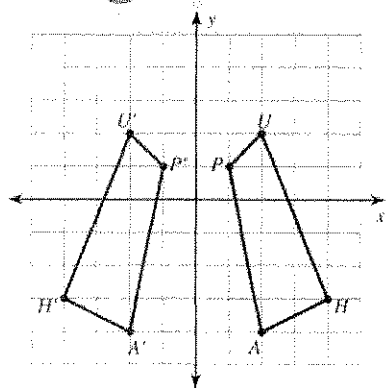
a) $R_{y=-1}$

b) $R_{x\text{-axis}}$

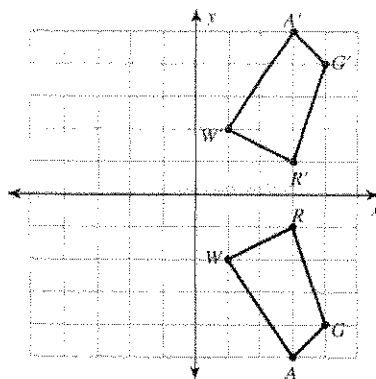


8. Identify the transformation occurred, using correction notation.

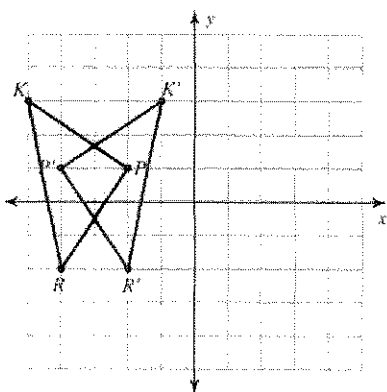
a) $R_{y\text{-axis}}$



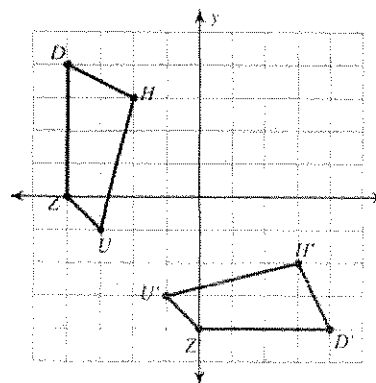
b) $R_{x\text{-axis}}$



c) $R_{x=-3}$



d) $R_{y=x}$



9. Which letters below have reflectional symmetry? Draw in the line of symmetry.

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

10. Draw 2 shapes with reflectional symmetry.

11. Draw 2 shapes without reflectional symmetry.