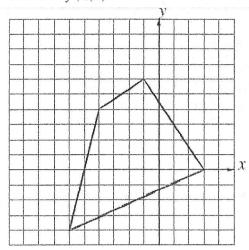
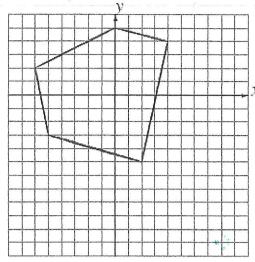
Coordinate Algebra

Transformations Homework

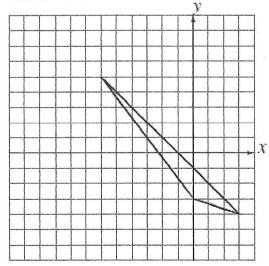
1. Translate by (-2, 3).



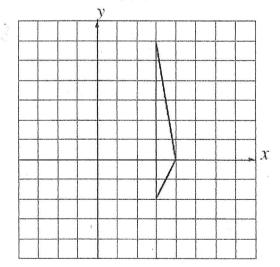
2. Translate by (4, -6).



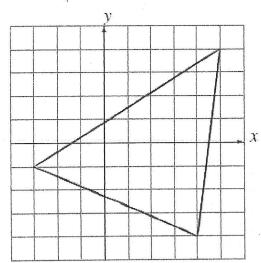
3. Reflect over x = -4.



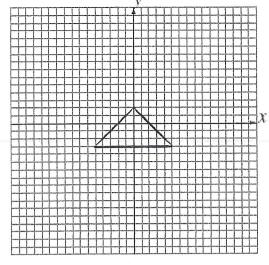
4. Rotate 180° about (2, 1).



5. Dilate by $\frac{1}{4}$ using center (0, 0).



6. Dilate by 3 using center (0, 0).



- 7. Triangle ABC has coordinates A(-3, 7), B(4, 1), and C(2, -1). Find the coordinates of its image after a....
 - a) reflection over the y-axis:

rule:

b) translation to the left 6 units and up 1 unit:

rule:

c) 270° clockwise rotation around the origin:

rule:

d) reflection over y=-x: _____

rule:

e) 90° clockwise rotation around the point (1, -2):

rule: