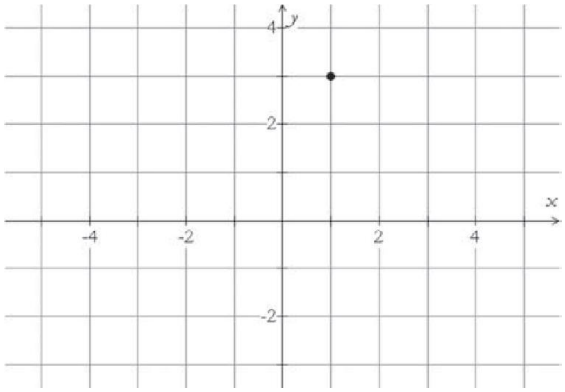
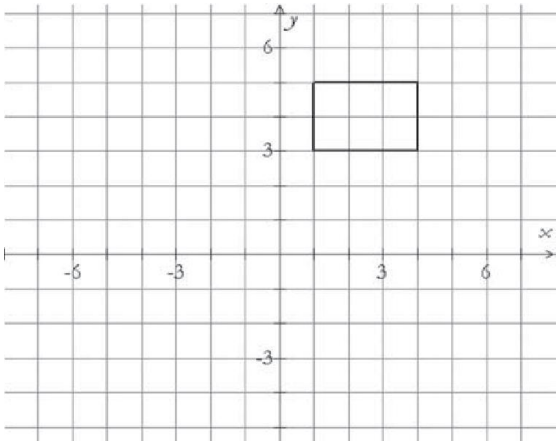
# Problems

34 Rotate the following point 90 degrees counterclockwise around the origin. What are its new coordinates?

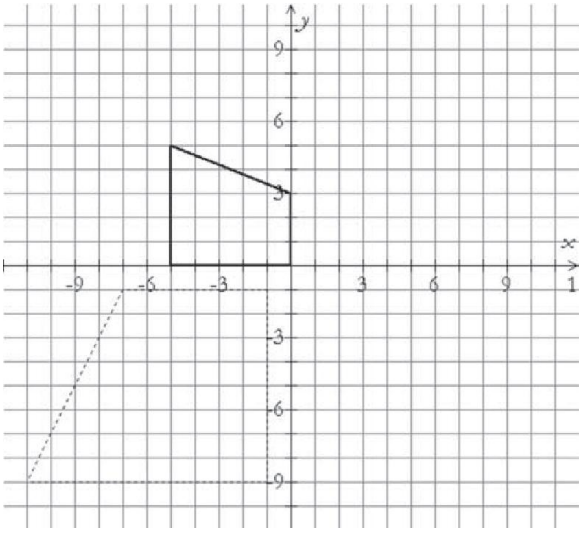



35 Rotate this rectangle 90 degrees clockwise around the origin and give its new coordinates.




36 For each part of this problem, give step-by-step instructions for how to transform the solid shape into the dashed shape. An example of this for the shape below would be 1) Rotate 90° counterclockwise around the origin; 2) dilate by a factor of 2 about the origin; 3) Translate 1 unit to the left and 1 unit down.

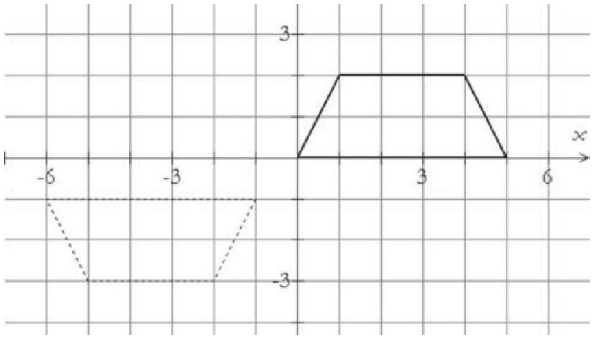
Figure for the example:



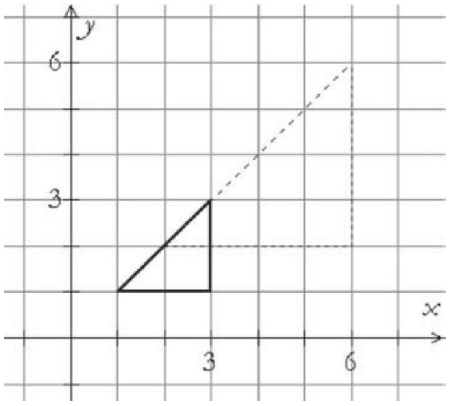

*(continued on next page)*

# 36 *(continued)*

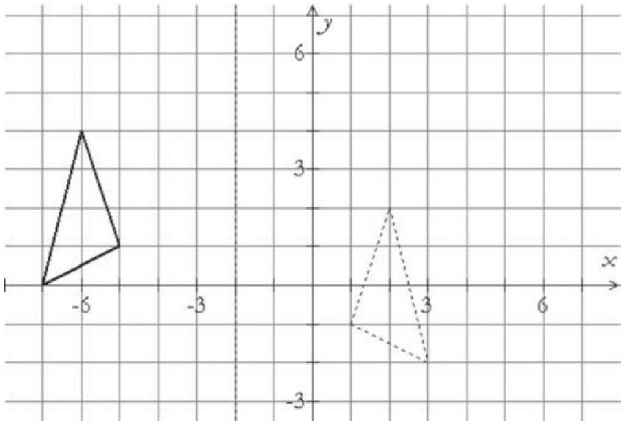
a.



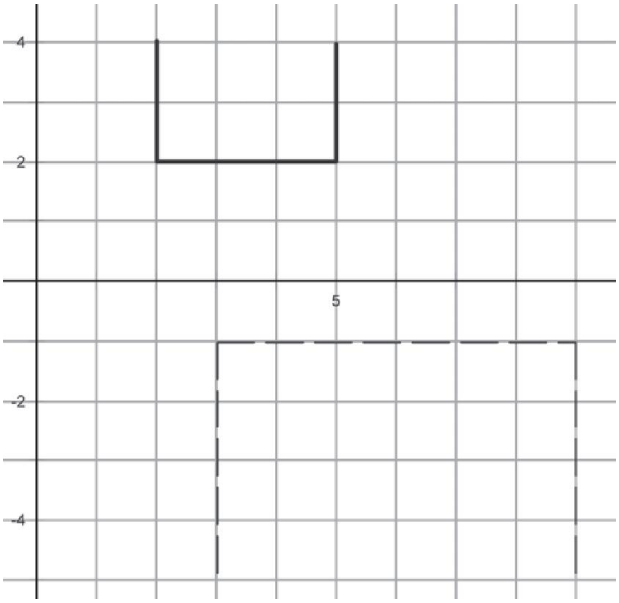

b.



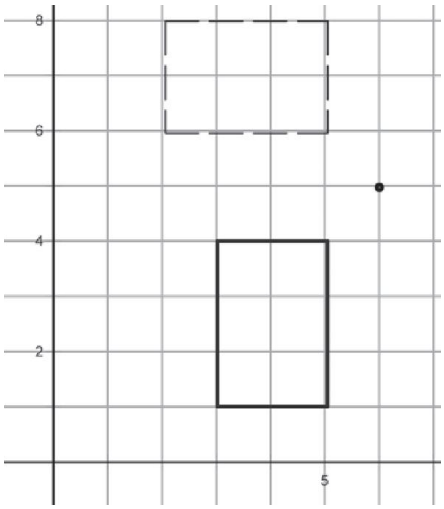

c.




d.




e.




(The extra point in this problem is a hint!)