Quarter 1 Review

Complete the following as a single rotaon

$$R_{x \text{ axis}} R_{y=x} = R_{o,\underline{}} (x,y)$$

Given the function, f(x) = -3x + 4 what is the value of x when f(x) = 16?

Determine the smallest positive angle of rotation that would perform the same rotation as the given one.

$$\begin{split} R_{0,-220^{\circ}} &= R_{0,___{\circ}} \\ R_{0,800^{\circ}} &= R_{0,___{\circ}} \\ R_{0,-540^{\circ}} &= R_{0,___{\circ}} \\ \end{split}$$

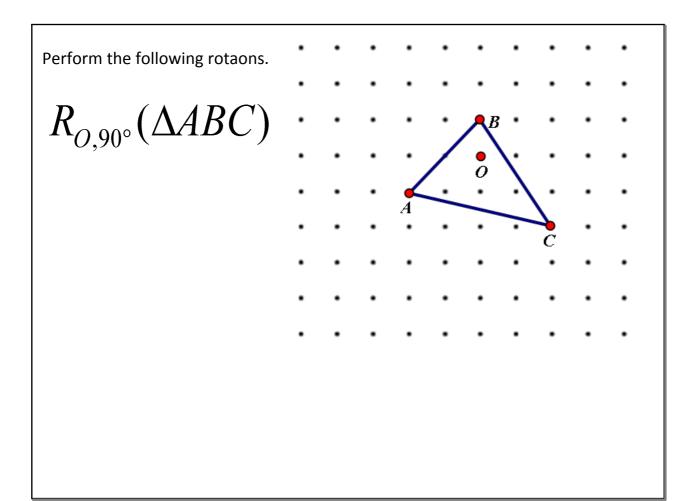
$$R_{0,-540^{\circ}} = R_{0,}$$

True/False

G(x,y) ----> (-x,y) is a reflecon over the x axis.

What is the rotational symmetry when the order is 5?

Draw a diagram using arrows that is NOT a function.



True / False

A regular decagon has 8 lines of symmetry?

$$R_{O,90^{\circ}}(\Delta ABC)$$

a) A = (4,6)
$$R_{O,90^*}(\triangle ABC)$$
 A'=(____,___)

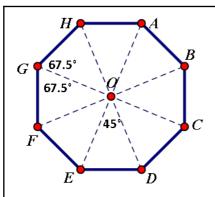
b) B = (7,0)
$$R_{0,90^{\circ}}(\triangle ABC')$$
 B' = (____, ___) c) C = (3,3) $R_{0,90^{\circ}}(\triangle ABC')$ C' = (____, ___)

c) C = (3,3)
$$K_{0,90}$$
, (ΔABC) C' = (____, ___)

Given the coordinate rule, T(x,y)-----(x-5, -y) determine the image of A(-3, -2).

True/False

A reflection of A (9,-8) over y=x results in A' (-9,8)



- $\begin{array}{ll} _{\rm a)} \; R_{{\it O},45^{\circ}}(A) = \underline{} & _{\rm b)} & R_{{\it O},135^{\circ}}(B) = \underline{} \\ _{\rm c)} \; R_{{\it O},-90^{\circ}}(D) = \underline{} & _{\rm d)} & R_{{\it O},180^{\circ}}(\underline{}) = \underline{} & \underline{} \end{array}$

Write the translaon coordinate rule from the given vector.



Given the coordinate rule, T(x,y) = ----(x + 4, y-3) determine the pre-image of A'(9, -5).

Determine the translaon rule from the pre-image and image.

A (0,3) A' (1,0)

Given a translaon rule, determine the missing point.

$$T(x,y)$$
 -----> $(x - 8, y + 1)$ $A(5,1)$ $A'(___, __)$

$$T(x,y)$$
 ----- > $(x - 2, y + 1)$ $A(____, ___)$ $A'(-1,-3)$

If you wanted to translate a shape to the right 8 units, you could reflect over x = 6 and then x =_____.

If you wanted to translate a shape up 12 units, you could reflect over y = and then y = -4.