Quarter 1 Review

Sep 29-7:17 PM

$$R_{x\ axis} \circ R_{y=x} = R_{o,\underline{\hspace{1cm}}}(x,y)$$

-90 degrees

Nov 19-8:07 AM

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

16 = -3x + 4

12=-3x

-4=x

Sep 29-5:57 PM

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

$$R_{0,-220°} = R_{0,\underline{\hspace{1cm}140\hspace{1cm}}}°$$
$$R_{0,800°} = R_{0,\underline{\hspace{0.5cm}80\hspace{0.5cm}}}°$$
$$R_{0,-540°} = R_{0,\underline{\hspace{0.5cm}180\hspace{0.5cm}}}°$$

Sep 23-9:33 PM

True/False

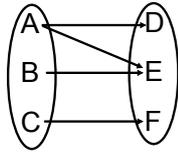G(x,y) -------> (-x,y) is a reflection over the x axis.

False

Sep 23-9:35 PM

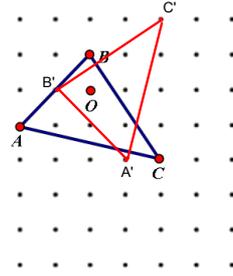What is the rotational symmetry when the order is 5?

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Draw a diagram using arrows that is NOT a function.

A → D
B → E
C → F

Sep 29-7:01 PM

Perform the following rotations.

$R_{O,90°}(\Delta ABC)$

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True / False

A regular decagon has 8 lines of symmetry?

False

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$R_{O,90°}(\Delta ABC)$

a) A = (4,6) $R_{O,90°}(\Delta ABC)$ A ' = (___ , ___)   -6,4

b) B = (7,0) $R_{O,90°}(\Delta ABC)$ B ' = (___ , ___)   0,7

c) C = (3,3) $R_{O,90°}(\Delta ABC)$ C ' = (___ , ___)   -3,3

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

(-8,2)

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True/False

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

False

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a) $R_{O,45°}(A) =$ ___H___   b) $R_{O,135°}(B) =$ ___G___

c) $R_{O,-90°}(D) =$ ___F___   d) $R_{O,180°}($___F___$) = B$

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Write the translation coordinate rule from the given vector.

$(x+2, y-4)$

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

$(5,-2)$

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

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

$(x+1, y-3)$

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Given a translation rule, determine the missing point.

$T(x,y) \longrightarrow (x - 8, y + 1)$ A (5,1)   A' (___-3___ , ___2___)

$T(x,y) \longrightarrow (x - 2, y + 1)$ A (___1___ , ___-4___)   A' (-1,-3)

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If you wanted to translate a shape to the right 8 units, you could reflect over x = 6 and then x = ___10___.

Sep 23-10:07 PM

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If you wanted to translate a shape up 12 units,
you could reflect over y = ___-10___ and then y = -4.

Sep 23-10:07 PM

Sep 25-10:05 AM