Unit 1



Quiz Review

Graph the image of the figure using the transformation given AND write the algebraic rule.



Write a verbal description and a motion rule, as requested, to describe each transformation.



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Graph the image of the figure using the transformation given and write the algebraic rule.

- 9) rotation 90° clockwise about the origin B(-2, 0), C(-4, 3), Z(-3, 4), X(-1, 4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = x K(-5, -2), A(-4, 1), I(0, -1), J(-2, -4)10) reflection across y = xK(-5
- 11. Use $\triangle ABC$ with A(2,-2), B(3,1), and C(1,2)

 \triangle **ABC** is reflected over y = -x and moved



12. If $\Delta D'E'F'$ has coordinates D' (-3, 1),

E'(4, 2) and F'(2, -3) was the result of a translation with rule (x - 2, y + 3),

what are the coordinates for the preimage, ΔDEF ?





13. Graph and label a triangle with vertices A (-1, 5), B (-4, 1), and C (-5, 6). Apply a translation with the rule (x, y) - (x - 1, y - 2). Label triangle A'B'C'. Then reflect triangle A'B'C' over the line y = x. Label triangle A''B''C''. Derive the algebraic rule that maps the pre-image to the final image.



14. The vertices of a triangle are P(-7, -1), Q(2, 1), and R(-5, 3). Name the algebraic rule for the composition of reflecting in the line y = x, then translating left 7 and down 4.

(A)
$$(x, y) \rightarrow (y-7, x-4)$$

B. $(x, y) \rightarrow (y-4, x-7)$
C. $(x, y) \rightarrow (x-7, y-4)$
D. $(x, y) \rightarrow (x-4, y-7)$
Reflect over $y = x$ $(x, y) \rightarrow (y, x)$
Then translate $(y-7, x-4)$
Left 7 down 4