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DILATIONS

Graph each image as well as the figure after each dilation with the origin as its center and the given scale factor.

1 $A(-8, 12), B(-8, 21), C(-8, 11)$
 $K = 2$

2 $A(6, 21), B(21, 21), C(18, 12), D(12, 12)$
 $K = \frac{1}{2}$

3 $A(8, 11), B(12, 11), C(8, 11)$
 $K = \frac{1}{2}$

4 $A(0, 0), B(0, 4), C(0, 1), D(3, 1)$
 $K = 3$

5 $A(-5, 20), B(-5, 15), C(-5, 10)$
 $K = \frac{1}{2}$

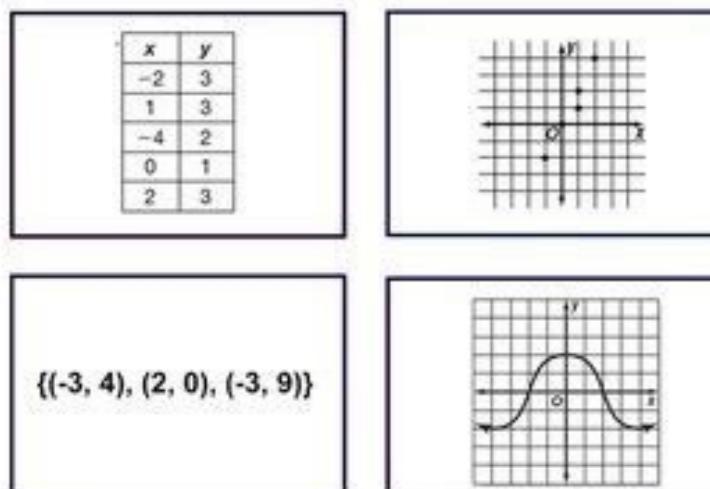
6 $A(-1, 1), B(0, 2), C(0, 1)$
 $K = 3$

7 $A(1, 12), B(12, 12), C(12, 8)$
 $K = \frac{1}{2}$

8 $A(-2, 1), B(2, 1), C(0, 1), D(-1, 0)$
 $K = 2$

9 $P(1, -8), Q(2, -8), R(1, -4)$
 $K = \frac{1}{2}$

Directions: Select all relations that represent functions

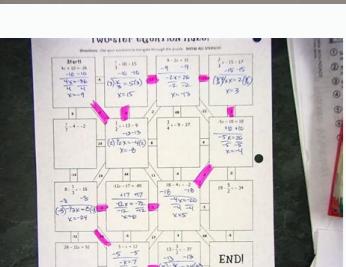
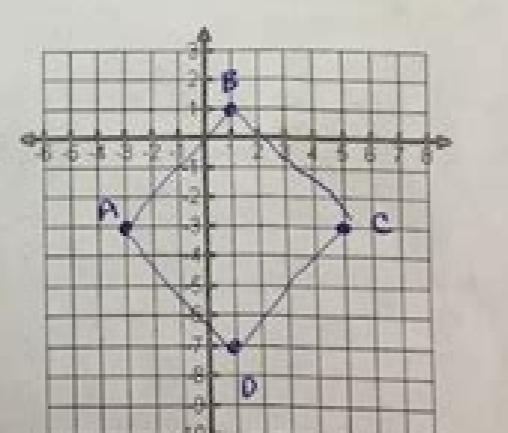


6. Definition: A parallelogram is a quadrilateral with two pairs of opposite sides that are parallel. Using the definition of a parallelogram, prove that Quadrilateral 2 is a parallelogram. (Hint: Find the slopes of all the sides)

$$\begin{array}{r} \text{A/B: } \frac{w_1}{w_2} = 1 \\ \text{B/C: } -\frac{w_2}{w_3} = 1 \\ \text{C/D: } \frac{w_3}{w_4} = 1 \\ \text{A/D: } -\frac{w_1}{w_4} = 1 \end{array}$$

7. Definition: A rectangle is a parallelogram with 4 right angles. Using the definition, prove that Quadrilateral 2 is a rectangle. (Hint: What do you notice about the slopes of adjacent sides?)

8. Definition: A rhombus is a parallelogram with all sides congruent.
Using the definition, prove that Quadrilateral 2 is a rhombus.
(Note: The length or distance of each side.)



Parallel Lines & Transversals

If TWO PARALLEL lines are cut by a transversal, then...

- Each pair of **corresponding angles** is **congruent**.
- Each pair of **alternate interior angles** is **congruent**.
- Each pair of **alternate exterior angles** is **congruent**.
- Each pair of **consecutive interior angles** is **supplementary**.

And recall from Unit 1, **vertical angles** are always congruent and a **linear pair** is always supplementary.

(So if we know one angle measure, then we can find them all!)

Example 1 Given $m\angle 1 = 65^\circ$, find the measure of each missing angle. Give your reasoning.

a. $m\angle 2 =$	
b. $m\angle 3 =$	
c. $m\angle 4 =$	
d. $m\angle 5 =$	
e. $m\angle 6 =$	
f. $m\angle 7 =$	
g. $m\angle 8 =$	

Example 2 Given $m\angle 6 = 142^\circ$, find the measure of each missing angle. Give your reasoning.

a. $m\angle 1 =$	
b. $m\angle 2 =$	
c. $m\angle 3 =$	
d. $m\angle 4 =$	
e. $m\angle 5 =$	
f. $m\angle 7 =$	
g. $m\angle 8 =$	

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