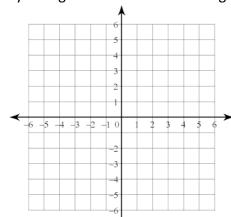
Graph and label each figure and its image under the given reflection. Write the rule using formal notation.

1) Dilate ΔQRS if Q(-1, 0), R(-1, 2), S(-2, 1)

by a magnitude of 2 from the origin.



Q' _____

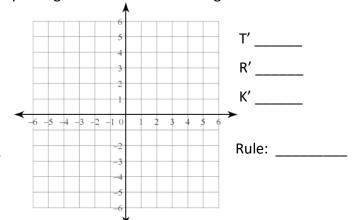
R' _____

S'

Rule:

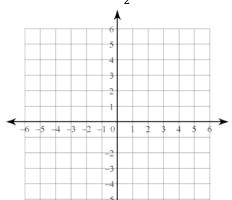
2) Dilate Δ TRK if T(-1, -2), R(1, 0), K(0, 1)

by a magnitude of 3 from the origin.



3) Dilate $\triangle XYZ$ if X(-4, 0), Y(-4, 3), Z(-2, -2)

by a magnitude of $\frac{1}{2}$ from the origin.



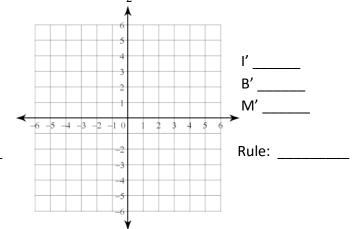
X' _____

Y' _____

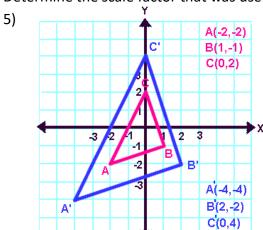
Rule: _____

4) Dilate \triangle IBM if I(2, -4), B(1, 2), M(4, 1)

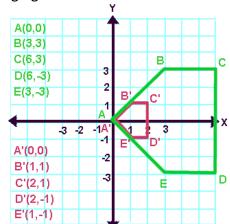
by a magnitude of $\frac{3}{2}$ from the origin.



Determine the scale factor that was used to dilate the following figures.



Scale Factor: _____



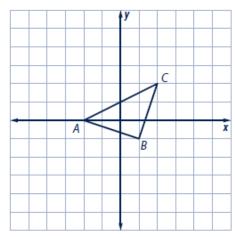
Scale Factor: _____

Date _____

Transformations

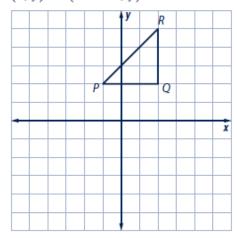
Applications Task 8

8. a. $(x, y) \rightarrow (3x, 3y)$



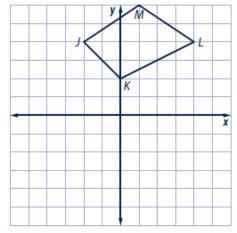
Type of Transformation:

b. $(x, y) \to (-x + 8, y)$



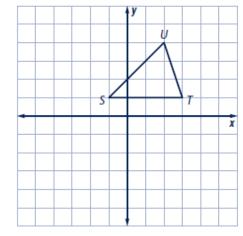
Type of Transformation:

c. $(x, y) \rightarrow \left(\frac{1}{2}x, \frac{1}{2}y\right)$



Type of Transformation:

d. $(x, y) \to (x, -y - 4)$



Type of Transformation:

UNI

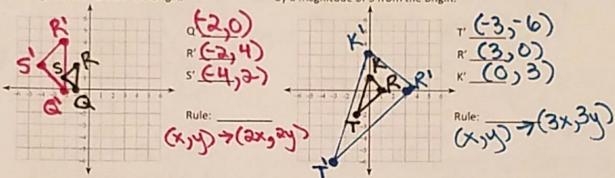
32

Graph and label each figure and its image under the given reflection. Write the rule using formal notation.

1) Dilate ΔQRS if Q(-1, 0), R(-1, 2), S(-2, 1)

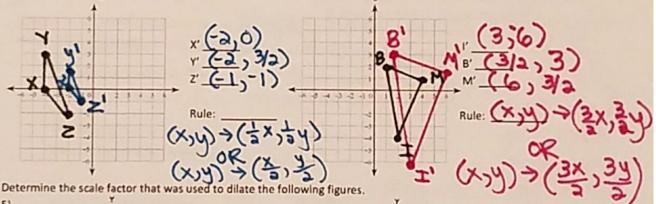
by a magnitude of 2 from the origin.

2) Dilate ΔTRK if T(-1, -2), R(1, 0), K(0, 1) by a magnitude of 3 from the origin.



3) Dilate ΔΧΥΖ if X(-4, 0), Y(-4, 3), Z(-2, -2) by a magnitude of from the origin.

 Dilate ΔIBM if I(2, -4), B(1, 2), M(4, 1) by a magnitude of 3 from the origin.



5) A(-2,-2) B(1,-1) A(-4,-4) B(2,-2) C(0,4)

B(3,3) C(6,3) 0(8,3) A'(0,0) C'(2,1)

Scale Factor: 2

Scale Factor: 13

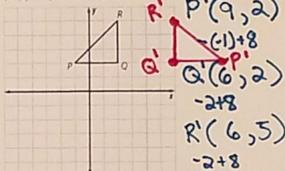
Role: (x,y) > (2x, 2y)
Enlargement by 2.

Description: Reduction

Transformations

Applications Task 8

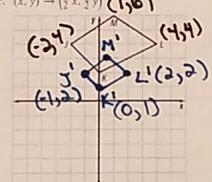
8. a. $(x, y) \rightarrow (3x, 3y)$



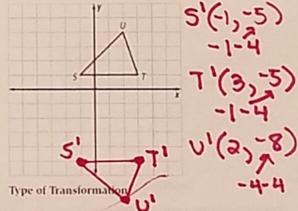
Type of Transformation:
Enlargement

Type of Transformation:

Reflection Glide reflection:



d. $(x, y) \to (x, -y - 4)$



Glide reflection:

reflection overx-oxis and down 4 units.

translated

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