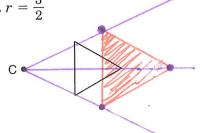
Practice

Dilations

Draw the dilation image of each figure with center C and the given scale factor.

1.
$$r = \frac{3}{2}$$



2.
$$r = \frac{2}{3}$$

Find the measure of the dilation image $\overline{A'T'}$ or of the preimage \overline{AT} using the given scale factor.

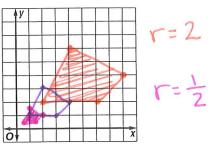
3.
$$AT = 15, r = \frac{3}{5}$$

4.
$$AT = 30, r = -\frac{1}{6}$$
 5. $A'T' = 12, r = \frac{4}{3}$

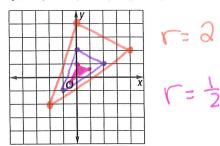
5.
$$A'T' = 12, r = \frac{4}{3}$$

COORDINATE GEOMETRY Find the image of each polygon, given the vertices, after a dilation centered at the origin with a scale factor of 2. Then graph a dilation centered at the origin with a scale factor of $\frac{1}{2}$.

6. A(1, 1), C(2, 3), D(4, 2), E(3, 1)

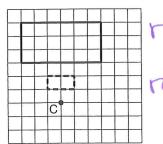


7. Q(-1, -1), R(0, 2), S(2, 1)

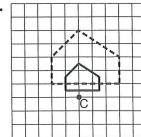


Determine the scale factor for each dilation with center C. Determine whether the dilation is an enlargement, reduction, or congruence transformation. The dotted figure is the dilation image.

8.



reduction



r=2 enlargement

10. PHOTOGRAPHY Estebe enlarged a 4-inch by 6-inch photograph by a factor of $\frac{5}{9}$. What are the new dimensions of the photograph? 10 in. by 15 in.

Leccon 0-5

J. S. ٠. ٠