- 1. Plot triangle *ABC* formed with the points A(0, 0), B(3, 4), and C(3, 0), on graph paper.
 - a. Dilate triangle ABC from the origin by a scale factor of 2 to form triangle A'B'C'.
 - b. What are the side lengths of the original triangle?
 - c. What are the side lengths of the image triangle?
 - d. Find the area of triangle A'B'C'.
- 2. Solve each equation below for x.

a.
$$\frac{x}{3} = 6$$

b.
$$\frac{5x+9}{2} = 12$$

c.
$$\frac{x}{4} = \frac{9}{6}$$

d.
$$\frac{5}{x} = \frac{20}{8}$$

3. Examine each diagram below. Identify the error in each diagram.





