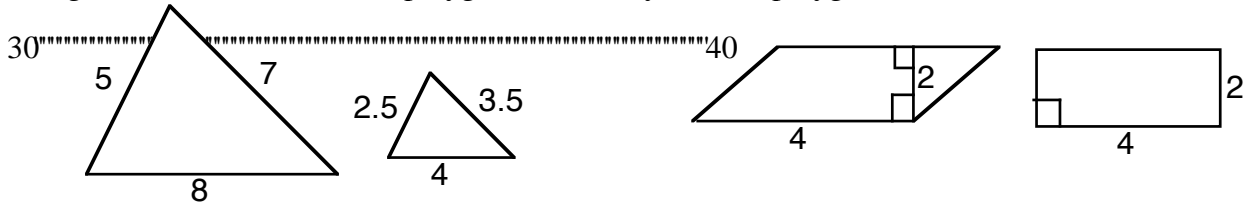
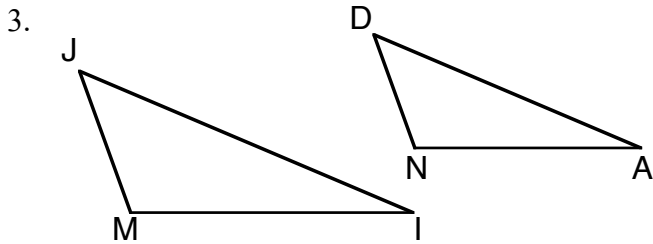


Using the definition of similar polygons, state why the two polygons are, or are not, similar. 33

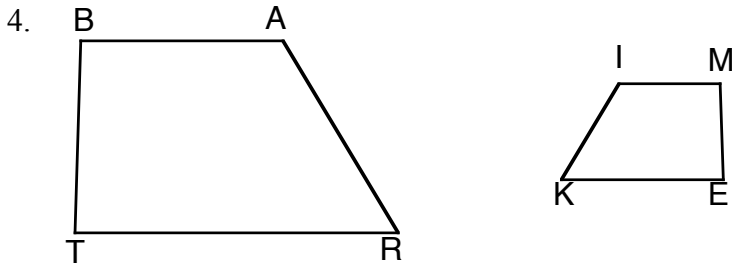


The two polygons are similar. Complete each statement.



$\Delta JIM \sim \Delta$  \_\_\_\_\_

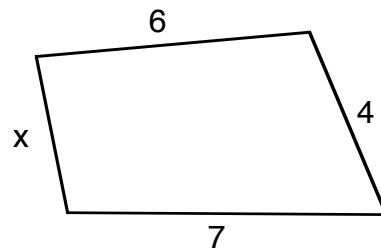
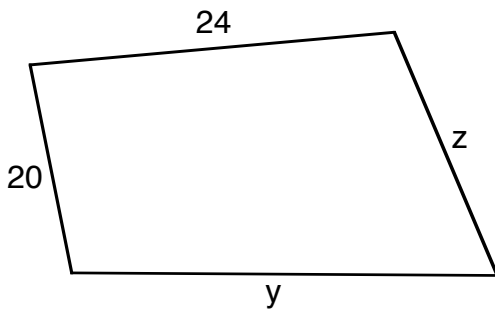
$$\frac{JI}{DA} = \frac{IM}{NA} = \frac{JM}{NA}$$



Trapezoid BART  $\sim$  Trapezoid \_\_\_\_\_

$$\frac{BA}{MI} = \frac{BT}{KE} = \frac{RT}{ME} = \frac{AR}{ME}$$

The two polygons are similar. Find the values of x, y, and z.



5. Scale factor = \_\_\_\_\_

Proportion for x

6. Scale factor = \_\_\_\_\_

Proportion for y

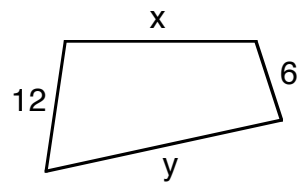
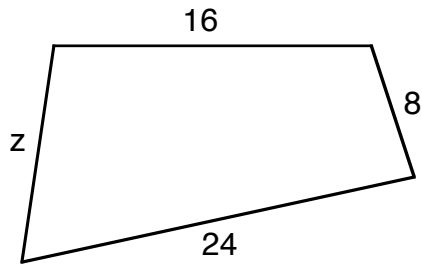
7. Scale factor = \_\_\_\_\_

Proportion for z

x = \_\_\_\_\_

y = \_\_\_\_\_

z = \_\_\_\_\_



8. Scale factor = \_\_\_\_\_

Proportion for x

9. Scale factor = \_\_\_\_\_

Proportion for y

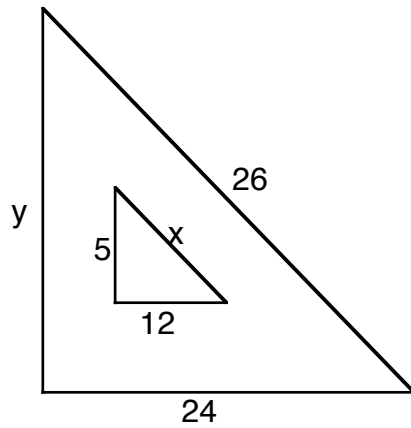
10. Scale factor = \_\_\_\_\_

Proportion for z

x = \_\_\_\_\_

y = \_\_\_\_\_

z = \_\_\_\_\_



11. Scale factor = \_\_\_\_\_

Proportion for x

12. Scale factor = \_\_\_\_\_

Proportion for y

x = \_\_\_\_\_

y = \_\_\_\_\_