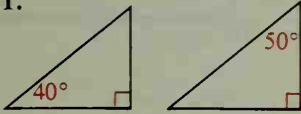


Written Exercises

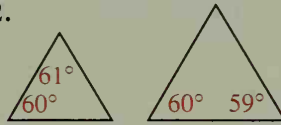
Tell whether the triangles are similar or not similar. If you can't reach a conclusion, write *no conclusion is possible*.

A

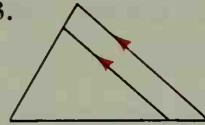
1.



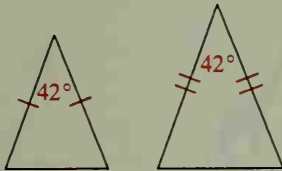
2.



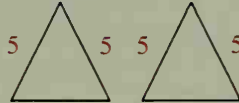
3.



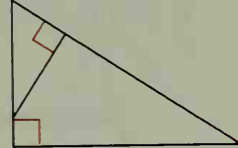
4.



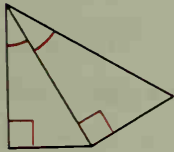
5.



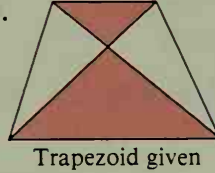
6.



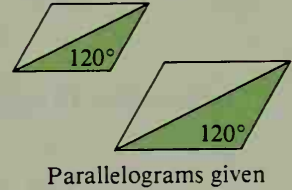
7.



8.



9.



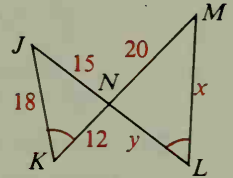
10. Complete.

a. $\triangle JKN \sim \underline{\hspace{1cm}} ?$

b. $\frac{JK}{?} = \frac{JN}{?} = \frac{KN}{?}$

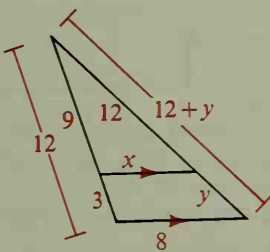
c. $\frac{15}{?} = \frac{18}{?}$ and $\frac{15}{?} = \frac{12}{?}$

d. $x = \underline{\hspace{1cm}} ?$ and $y = \underline{\hspace{1cm}} ?$

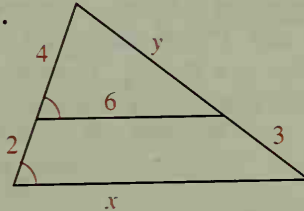


Find the values of x and y .

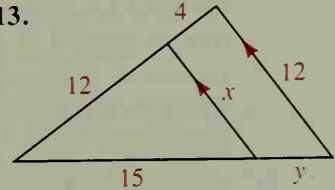
11.



12.



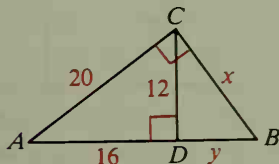
13.



B

14. a. Name two triangles that are similar to $\triangle ABC$.

b. Find the values of x and y .



15. If $IV = 36$ m, $VE = 20$ m, and $EB = 15$ m, find the width, RI , of the river.

