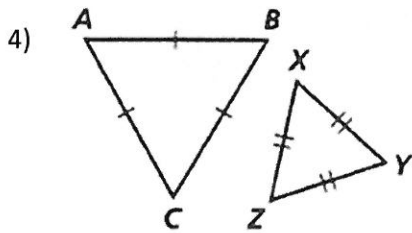
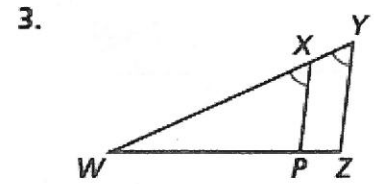
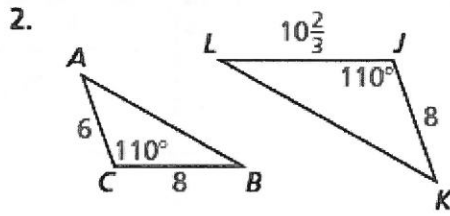
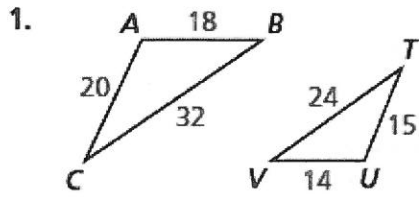


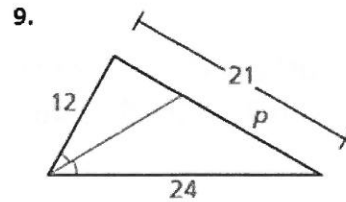
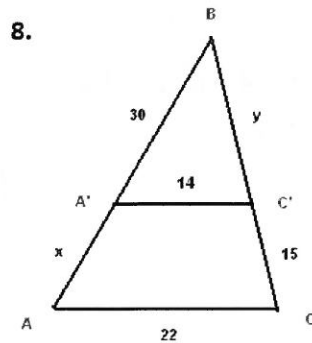
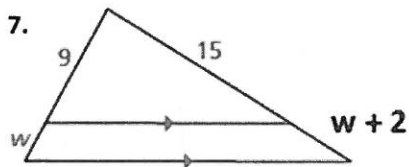
Unit 8 Review: Similarity

Determine whether the triangles are similar. If they are, write a similarity statement. Explain your reasoning.



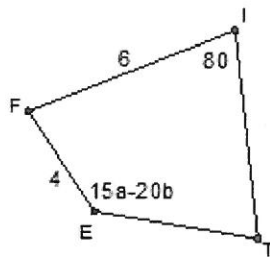
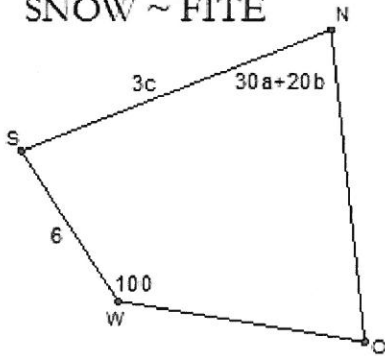
5) Solve for x.  $\frac{x+2}{15} = \frac{x-1}{6}$

6) Solve for x.  $\frac{x}{16} = \frac{9}{x}$

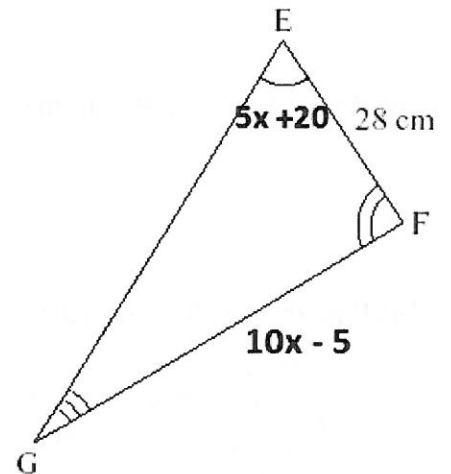
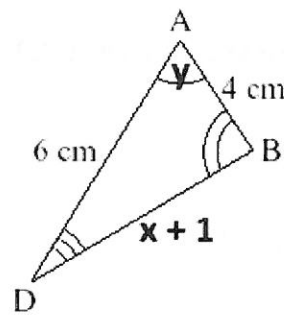


10) Solve for a and b.

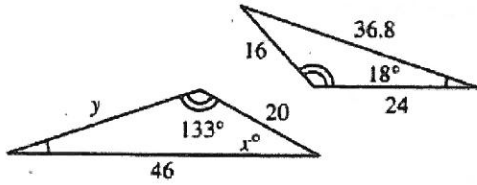
SNOW ~ FITE



11) Solve for x and y.

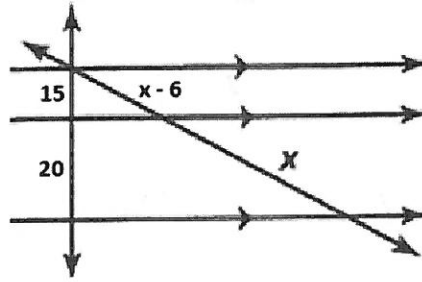


12) Solve for  $x$  and  $y$ .



$x = \underline{\hspace{2cm}}$ ;  $y = \underline{\hspace{2cm}}$

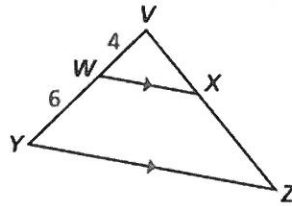
13) Solve for  $x$ .



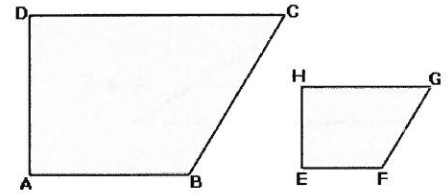
Why are the triangles in 12) similar?

13) In the figure,  $\overline{WX} \parallel \overline{YZ}$ . Which are possible values for  $VX$  and  $XZ$ ? (TEKS G.8.A)

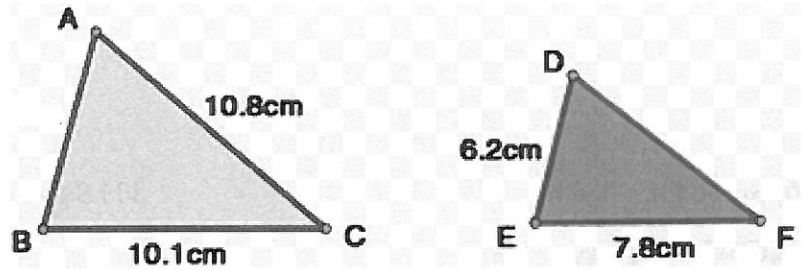
- (A)  $VX = 5$  and  $XZ = 5$
- (B)  $VX = 6$  and  $XZ = 4$
- (C)  $VX = 9$  and  $XZ = 6$
- (D)  $VX = 8$  and  $XZ = 12$



14) The area of ABCD is  $126 \text{ cm}^2$ , the area of EFGH is  $14 \text{ cm}^2$  and the perimeter of EFGH is 27. Find the perimeter of ABCD given  $ABCD \sim EFGH$ .



15) Given  $ABC \sim DEF$  and the area of DEF is 19.5. Find the area of triangle ABC to the nearest tenth.



16) Given  $ABC \sim DEF$  and the perimeter of ABC is 29 cm, find the perimeter of DEF.

17) Find the height of triangle KLJ.

