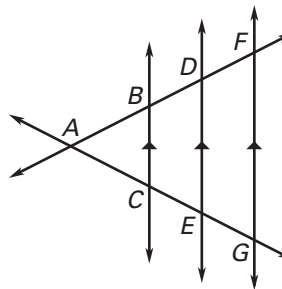


Practice A

For use with pages 498–505

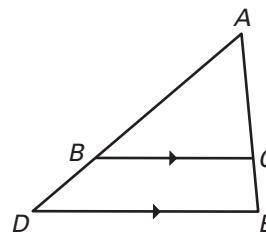
Use the figure to complete the proportions.

1. $\frac{AB}{AF} = \frac{BC}{?}$
2. $\frac{BD}{DF} = \frac{?}{EG}$
3. $\frac{AD}{BD} = \frac{AE}{?}$
4. $\frac{AC}{AG} = \frac{AB}{?}$
5. $\frac{DE}{FG} = \frac{AD}{?}$
6. $\frac{AB}{DF} = \frac{?}{EG}$



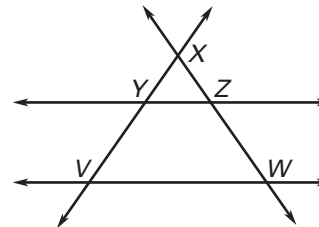
Determine whether the statement is *true* or *false*. Explain your reasoning.

7. $\frac{AB}{BD} = \frac{AC}{CE}$
8. $\frac{AC}{CE} = \frac{BC}{DE}$
9. $\frac{EC}{CA} = \frac{ED}{CB}$
10. $\frac{DB}{BA} = \frac{EC}{CA}$



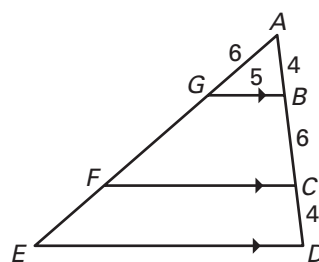
Determine whether the given information implies $\overline{YZ} \parallel \overline{VW}$. If they are parallel, state the reason.

11. $\frac{XY}{XV} = \frac{XZ}{XW}$
12. $\frac{XY}{YV} = \frac{XZ}{ZW}$
13. $\triangle XYZ \sim \triangle XVW$
14. $\angle VYZ \cong \angle WZY$



Use the figure to match the segment with its length.

- A. 9
- B. $12\frac{1}{2}$
- C. 6
- D. $17\frac{1}{2}$
15. \overline{GF}
16. \overline{FC}
17. \overline{ED}
18. \overline{FE}



Find the value of the variable.

