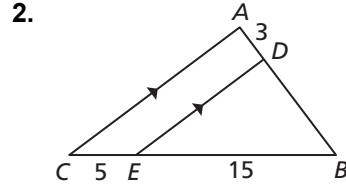
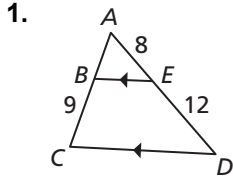


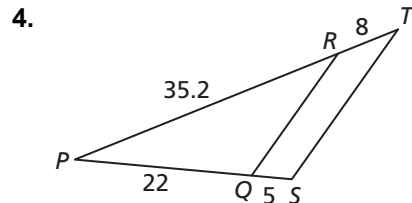
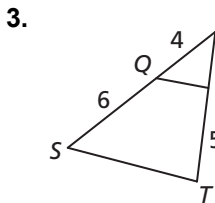
# 8.4

## Practice A

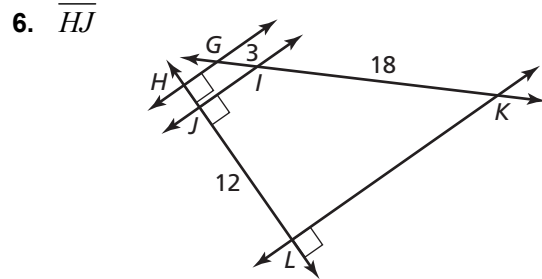
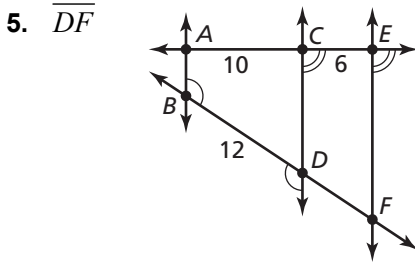
In Exercises 1 and 2, find the length of  $\overline{AB}$ .



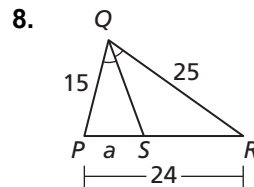
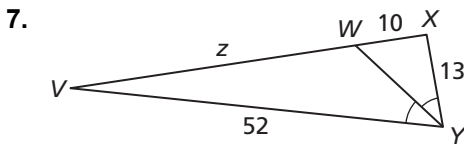
In Exercises 3 and 4, determine whether  $\overline{QR} \parallel \overline{ST}$ .



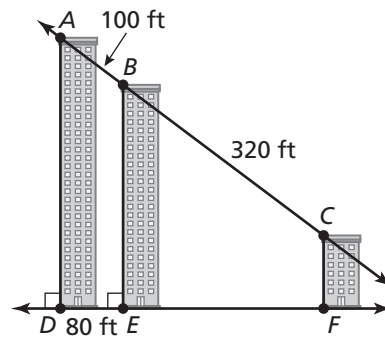
In Exercises 5 and 6, find the length of the indicated line segment.



In Exercises 7 and 8, find the value of the variable.



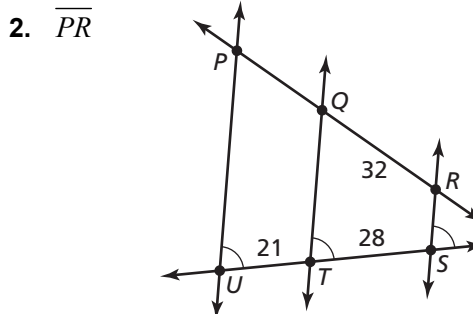
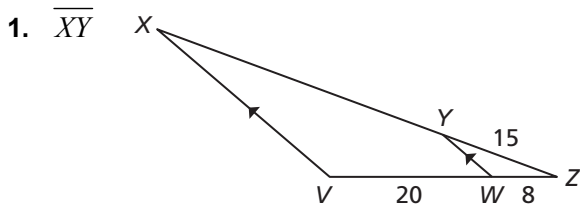
9. The diagram shows the skyline of a city. Find the distance between point  $E$  and point  $F$  for which  $\overline{BE} \parallel \overline{CF}$ . Explain your reasoning.



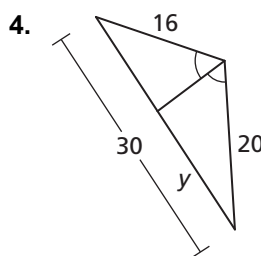
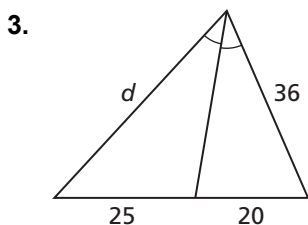
# 8.4

## Practice B

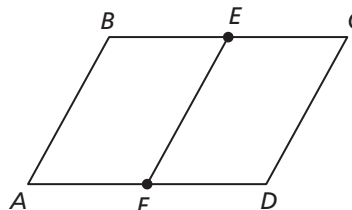
In Exercises 1 and 2, find the length of the indicated line segment.



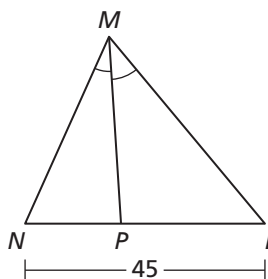
In Exercises 3 and 4, find the value of the variable.



5. The figure shows parallelogram  $ABCD$ , where  $E$  and  $F$  are the midpoints of  $\overline{BC}$  and  $\overline{AD}$  respectively. Your friend claims that  $\overline{EF}$  is parallel to  $\overline{AB}$  and  $\overline{CD}$  by the Three Parallel Lines Theorem (Theorem 8.8). Is your friend correct? Explain your reasoning.



6. The figure shows a triangle such that the length of  $\overline{LP}$  is nine less than twice the length of  $\overline{PN}$ . Do you have enough information to find  $LP$  and  $PN$ ? Explain your reasoning. If so, find  $LP$  and  $PN$ .



7. Use the diagram to write a two-column proof.

- Given:**  $\overline{WY}$  bisects  $\angle XYZ$ .  
 $\overline{YW}$  bisects  $\angle XWZ$ .  
 $YZ \cong WZ$

**Prove:**  $WXYZ$  is a kite.

