

**Assignment 3 LESSON 1.3 Show all work for full credit.****Find the indicated length.**

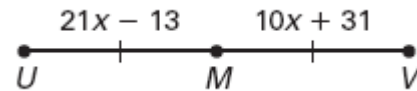
- Line  $JK$  bisects  $\overline{LM}$  at point  $J$ . Find  $JM$  if  $LJ = 23$  centimeters.
- Point  $F$  bisects  $\overline{GH}$ . Find  $GH$  if  $GF = 14\frac{7}{12}$  feet.

**In the diagram,  $M$  is the midpoint of the segment. Find the indicated length.**

- Find  $MQ$ .



- Find  $UV$ .

**Find the coordinates of the midpoint of the segment with the given endpoints.**

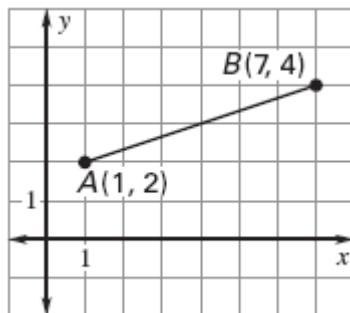
- $A(6, -3)$  and  $B(10, 5)$
- $M(14, 7)$  and  $N(-9, 1)$

**Use the given endpoint  $R$  and midpoint  $M$  of  $\overline{RS}$  to find the coordinates of the other endpoint  $S$ .**

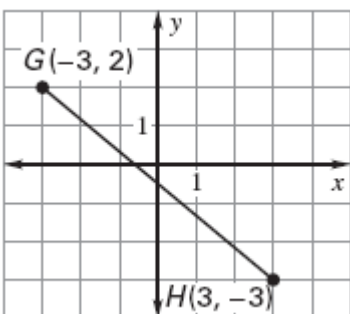
- $R(8, 0), M(4, -5)$
- $R(7, -17), M(-2, 3)$

**Find the length of the segment. Round to the nearest tenth of a unit.**

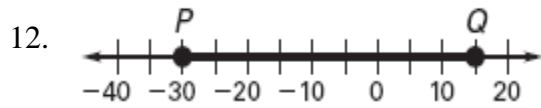
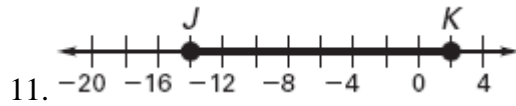
9.



10.



Find the length of the segment. Then find the coordinate of the midpoint of the segment.



The endpoints of two segments are given. Find each segment length. Tell whether the segments are congruent.

13.  $\overline{AB}$  :  $A(7,2), B(0, -3)$   
 $\overline{CD}$  :  $C(-4, 12), D(-1, 4)$
14.  $\overline{RS}$  :  $R(5, 6), S(11, -2)$   
 $\overline{TU}$  :  $T(-7, 9), U(3, 9)$
15.  $\overline{KL}$  :  $K(-10, 8), L(2, 7)$   
 $\overline{MN}$  :  $M(14, -4), N(5, 4)$