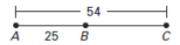
Use the Segment Addition Postulate to find the indicated length.

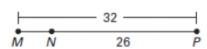
Find RT.



2. Find BC.



Find MN.



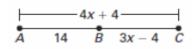
Use the number line to find the indicated distance.



4. AB=

Find the indicated length.

8. Find AC



Point J is between H and K on HK. Use the given information to write an equation in terms of x. Solve the equation. Then find HJ and JK.

9. HJ = 2x

$$JK = 3x$$

$$KH = 25$$

C is between A and E. For each problem, draw a picture representing the three points and the information given. Solve for indicated.

3. If AC = 24 in. and CE = 13 in., AE = \_\_\_\_\_. 4. If CE = 7in. and AE = 23 in., AC = \_\_\_\_\_.

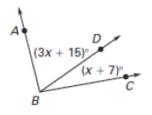
Give another name for the angle in the diagram. Tell whether the angle appears to be acute, obtuse, right, or straight.

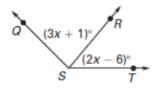
obtuse, rigr 10. ∠JKN

- 11. ∠*KMN*
- 0

12. ∠PQM

- 13. ∠JML
- Use the given information to find the indicated angle measure.
- 14. Given  $m \angle ABC = 94^{\circ}$ , find  $m \angle CBD$ .
- 15. Given  $m \angle QST = 135^{\circ}$ , find  $m \angle QSR$ .

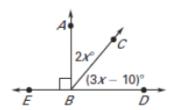




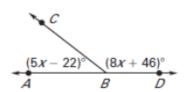
- $\angle$  1 and  $\angle$ 2 are complementary angles and  $\angle$  2 and  $\angle$  3 are supplementary angles. Given the measures of  $\angle$  1, find  $m\angle$  2 and  $m\angle$  3.
- 16.  $m \angle 1 = 80^{\circ}$
- 17.  $m \angle 1 = 33^{\circ}$
- 18.  $m \angle 1 = 72^{\circ}$
- 19.  $m \angle 1 = 7^{\circ}$

## Find $m \angle$ ABC and $m \angle$ CBD.

20.



21.



If U is between T and B, find the value of  $\times$  and the lengths of the segments. Draw a picture, write the segment addition postulate, write an equation and solve.

$$TU = 4x-1$$
,  $UB = 2x -1$ ,  $TB = 5x$ 



