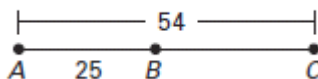
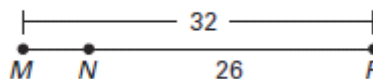
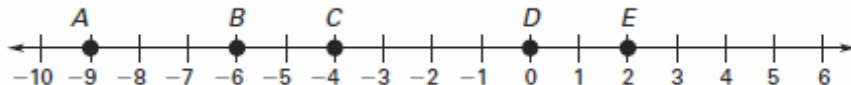


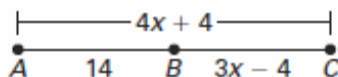
Use the Segment Addition Postulate to find the indicated length.

1. Find RT .2. Find BC .3. Find MN .

Use the number line to find the indicated distance.

4. $AB =$ 5. $BD =$ 6. $CE =$ 7. $DE =$

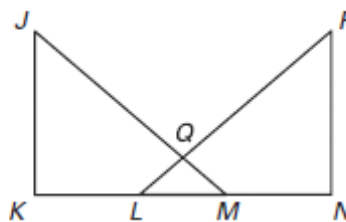
Find the indicated length.

8. Find AC 

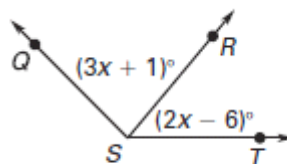
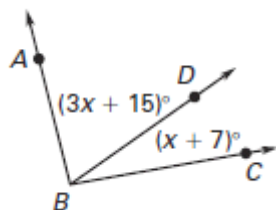
Point J is between H and K on HK . Use the given information to write an equation in terms of x . Solve the equation. Then find HJ and JK .

9. $HJ = 2x$ $JK = 3x$ $KH = 25$

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

10. $\angle JKN$ 11. $\angle KMN$ 12. $\angle PQM$ 13. $\angle JML$ 

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. $m\angle 1 = 80^\circ$

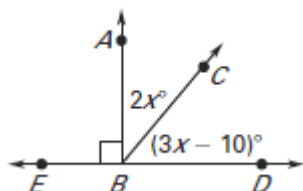
17. $m\angle 1 = 33^\circ$

18. $m\angle 1 = 72^\circ$

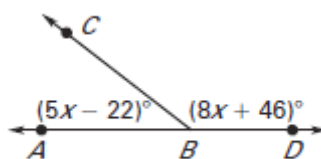
19. $m\angle 1 = 7^\circ$

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

20.



21.



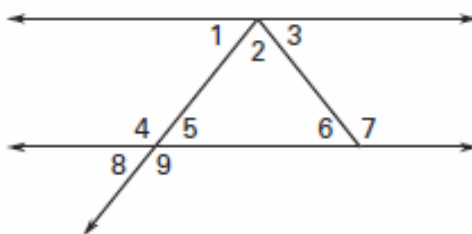
In Exercises 22 - 25, use the diagram. Tell whether the angles are vertical angles, a linear pair, adjacent, or neither.

22. $\angle 1$ and $\angle 3$

23. $\angle 2$ and $\angle 3$

24. $\angle 4$ and $\angle 5$

25. $\angle 5$ and $\angle 8$



26. The measure of one angle is three times the measure of its complement. Find the measure of each angle.

27. Two angles form a linear pair. The measure of one angle is 8 times the measure of the other angle. Find the measure of each angle.

Tell whether the statement is always, sometimes, or never true.

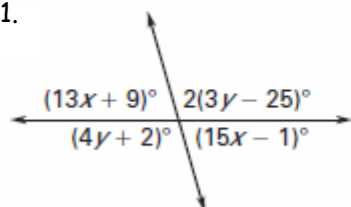
28. Two complementary angles form a linear pair.

29. The supplement of an obtuse angle is an acute angle.

30. An angle that has a supplement also has a complement.

Find the value of the variables and the measure of each angle in the diagrams.

31.



32.

