

Geometry w/ Applications
Chapter 1 Review

Name _____

Predict the next number in each sequence.

1. 2, 6, 14, 30, ...

3. 96, 48, 24, 12, ...

2. 1, 4, 9, 16, ...

4. 3, 125, 625, 125, 25, ...

Decide whether the statement is *true* or *false*.

7. Point C lies on line l .

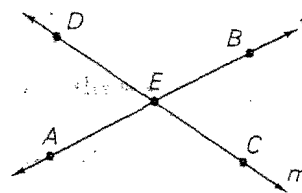
8. Point E lies on \overline{AB} .

9. Points D , A , and B are collinear.

10. Points D , A , and B are coplanar.

11. Point C lies on line m .

12. Lines l and m intersect at E .



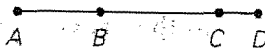
13. Find the length of each segment.

$AD = 30$

$AB = 2x + 2$

$BC = 4x - 1$

$CD = 3x - 7$



Find the distance between each pair of points.

14. $MN =$

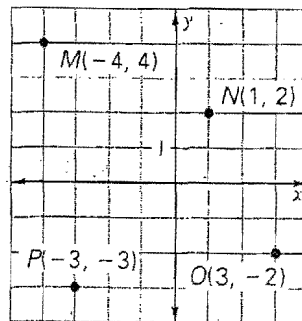
15. $NO =$

16. $OP =$

17. $PM =$

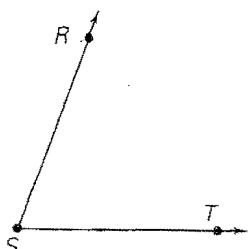
18. $MO =$

19. $NP =$

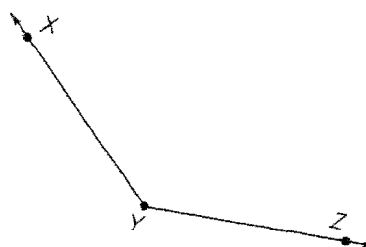


For each angle, give the vertex, the sides, and 3 names. Then classify the angle.

20.

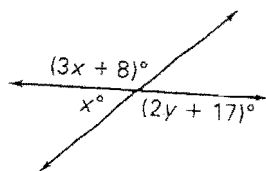


21.

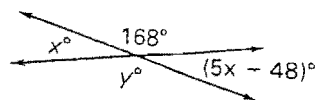


Find the value of each variable.

22.



23.



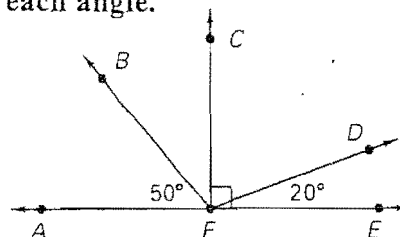
Use the Angle Addition Postulate to find the measure of each angle.

24. $m\angle CFD =$

25. $m\angle BFC =$

26. $m\angle AFD =$

27. $m\angle BFE =$



Find the coordinates of the midpoint, given the endpoints.

28. $A(7, 3)$ $B(9, -1)$

29. $A(-6, 6)$ $B(4, 10)$

Find the coordinates of the other endpoint, given one endpoint and the midpoint.

30. $A(-2, -6)$ $M(0, 5)$

31. $A(12, 5)$ $M(3, -3)$

The two angles given are complementary. Find the measure of each angle.

32. $m\angle B = (2x)^\circ$

$m\angle C = (x - 30)^\circ$

The two angles given are supplementary. Find the measure of each angle.

33. $m\angle A = 7x + 1$

$m\angle B = 5x - 7$

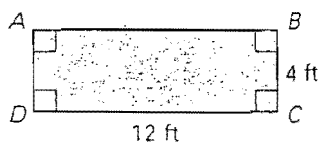
Find the perimeter (or circumference) of the figure described.

34. A circle with diameter 40 feet.

35. A rectangle with length 6 yards and width 3 yards.

Find the area of each figure.

36.



37.

