

CHAPTER
1

NAME _____

1.7.13

DATE _____

Cumulative Review

For use after Chapter 1

Describe a pattern in the sequence of numbers. Predict the next number (1.1)

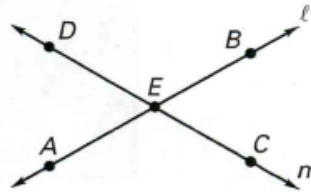
1. 2, 6, 14, 30, ...
2. 1, 4, 9, 16, ...
3. 96, 48, 24, 12, ...
4. 3125, 625, 125, 25, ...

Complete the conjecture based on the pattern you observe in these specific cases. (1.1)

5. Conjecture: The product of two consecutive positive integers is always ?.
 $3 \times 4 = 12$ $7 \times 8 = 56$
 $4 \times 5 = 20$ $10 \times 11 = 110$
6. Conjecture: The square of any odd integer is always ?.
 $7^2 = 49$ $11^2 = 121$ $13^2 = 169$
 $9^2 = 81$ $15^2 = 225$ $17^2 = 289$

Decide whether the statement is *true* or *false*. (1.2)

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*.



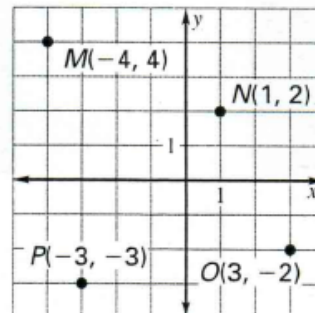
Find the length of each segment. (1.3)

13. $AD = 30$
 $AB = 2x + 2$
 $BC = 4x - 1$
 $CD = 3x - 7$



Find the distance between each pair of points. Round your answers to the nearest hundredth. (1.3)

14. $MN = \underline{\quad ? \quad}$
15. $NO = \underline{\quad ? \quad}$
16. $OP = \underline{\quad ? \quad}$
17. $PM = \underline{\quad ? \quad}$
18. $MO = \underline{\quad ? \quad}$
19. $NP = \underline{\quad ? \quad}$



CHAPTER
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CONTINUED

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Cumulative Review

For use after Chapter 1

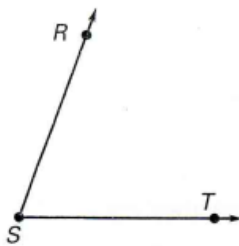
Use a protractor to draw the angle described. (1.4)

20. $m\angle ABC = 40^\circ$

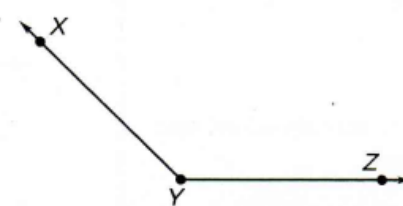
21. $m\angle DEF = 120^\circ$

Use a protractor to measure the angle to the nearest degree. (1.4)

22.



23.



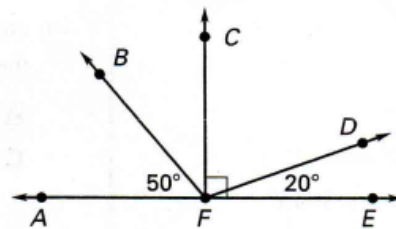
Use the Angle Addition Postulate to find the measure of the unknown angle. (1.4)

24. $m\angle CFD = ?$

25. $m\angle BFC = ?$

26. $m\angle AFD = ?$

27. $m\angle BFE = ?$



Find the coordinates of the midpoint of a segment with the given endpoints. (1.5)

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

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

30. $A(-2, -6), B(7, 0)$

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

$\angle A$ and $\angle B$ are complementary. Find $m\angle A$ and $m\angle B$. (1.6)

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

33. $m\angle A = 5x + 11$

$m\angle B = 5x - 7$

$m\angle B = 2x - 5$

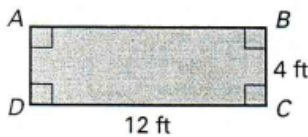
Find the perimeter (or circumference) of the figure described. (When necessary use $\pi \approx 3.14$.) (1.7)

34. Circle with diameter 40 feet

35. Rectangle with length 6 yards and width 3 yards

Find the area of the figure. (1.7)

36.



37.

