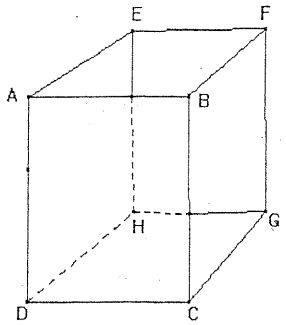
NAME_____ DATE_____ PERIOD_____

# CHAPTER 3 TEST REVIEW

*For questions 1 and 2, refer to figure.*



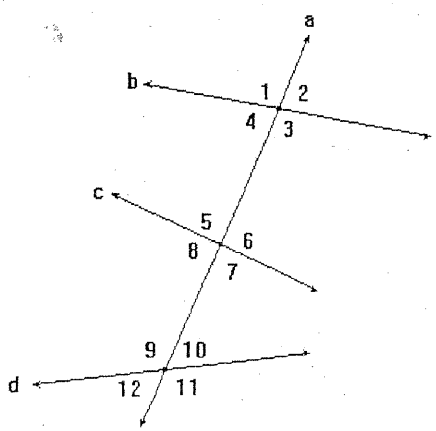

1. Which segment is skew to $\overline{CD}$? 1. _____

a. $\overline{EF}$ b. $\overline{AE}$ c. $\overline{AB}$ d. $\overline{HG}$

2. Which segment is parallel to $\overline{AB}$? 2. _____

a. $\overline{DC}$ b. $\overline{BF}$ c. $\overline{EH}$ d. $\overline{FG}$

*For questions 3 - 8, refer to the figure. Identify the specific name for each angle pair.*




3. $\angle 4 and \angle 8$ 3. _____

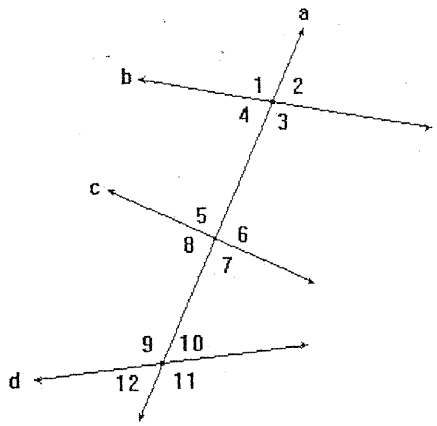
a. alternate exterior b. alternate interior

c. corresponding d. consecutive interior

4. $\angle 5 and \angle 11$ 4. _____

a. alternate exterior b. alternate interior

c. corresponding d. consecutive interior




5. Given $b \parallel d$ and $m\angle 3 = 99$, find $m\angle 10$. 5. _____

a. 99 b. 61

c. 81 d. 30

6. Given $c \parallel d$ and $m\angle 8 = 73$, find $m\angle 10$. 6. _____

a. 17 b. 73

c. 107 d. 90

7. Given $b \parallel c$ and $m\angle 7 = 85$, find $m\angle 1$. 7. _____

a. 85 b. 95

c. 58 d. 42.5

8. If $m\angle 4 = 10x - 6$ and $m\angle 5 = 4x + 18$, find x so that $b \parallel c$. 8. x = _____

9. What is the slope of a line parallel to the line containing (2,5) and (6, -11)? 9. _____

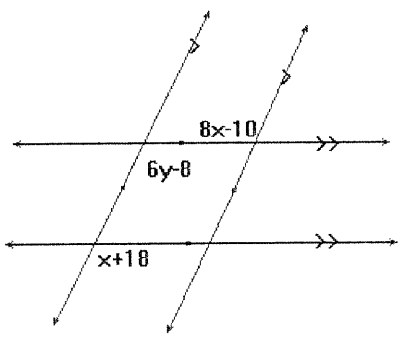
a. -13 b. -4 c. -1/4 d. 4

10. Find the slope of a line perpendicular to the line containing (-2, -9) and (8,6) 10. _____

a. -2/3 b. 2/5 c. 2/3 d. 3/2

11. Find x and y in the figure. 11. x = _____

y = _____




*Find the slope of each line through the given points.*

12. $\overleftrightarrow{SW}$, S(-1,2), W(0,4) 12. m=_____

13. $\overleftrightarrow{GH}$, G(-2,5), H(1,-7) 13. m=_____

*Determine whether* $\overleftrightarrow{KM}$ *and* $\overleftrightarrow{ST}$ *are parallel, perpendicular, or neither.*

14. K(-1,-8), M(1,6), S(-2,-6), T(2,10) 14. _____

15. K(-3, -5), M(5,-1), S(-2,6), T(4,3) 15. _____

16. K (1,-4), M (5,12), S (-8,3), T (-4,2) 16. _____

*For questions 17 - 19, write an equation in slope-intercept form for the line that satisfies the given conditions.*

17. $m = -\frac{4}{9}$ y-intercept = 2 17. _____

18. m = 3, contains (2,-3)

18. _____

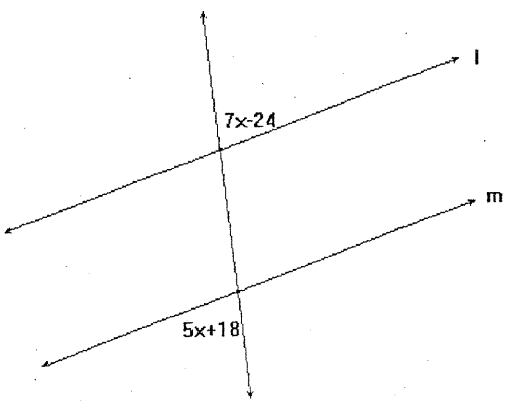
19. Contains (-4,2) and (8,-1)

19. _____

*For questions 20 and 21, find x so that* $l \parallel m$

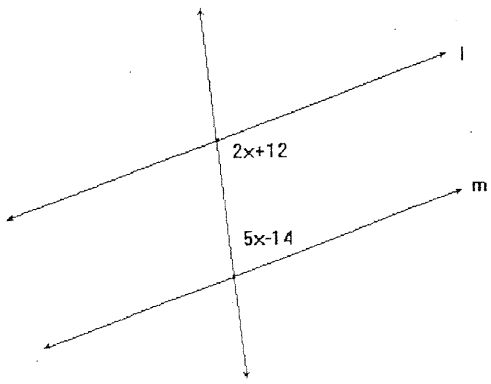
20.

20. x=_____

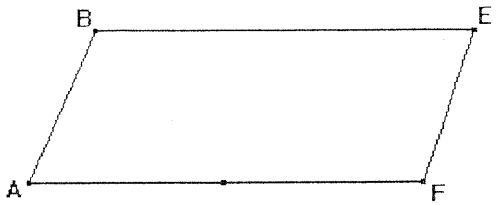



21.

21. x=_____



22. Draw the segment that represents the distance from E to $\overline{AF}$



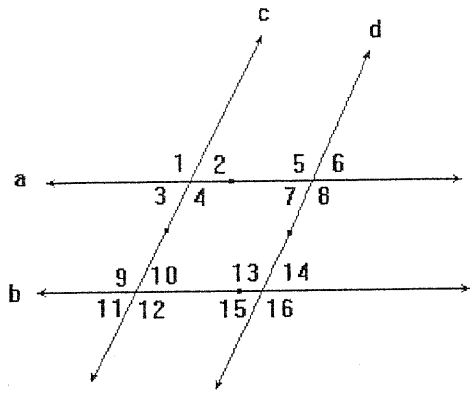

*For questions 23 and 24, find the distance between each pair of parallel lines.*

23. $x = -6$ $x = 5$ 23. d=_____

24. $y = -2x + 5$ $y = -2x - 5$ 24. d=_____

*Complete the following proofs:*

25. Given: $c \parallel d, \measuredangle 6 \cong \measuredangle 11$ Prove: $a \parallel b$

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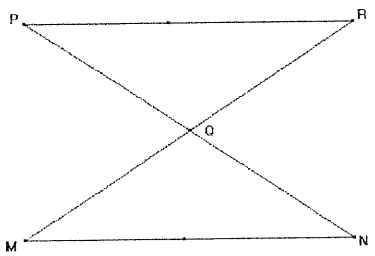
26. Given: $\measuredangle R \cong \measuredangle N, \measuredangle R \cong \measuredangle P$ Prove: $\overline{PR} \parallel \overline{MN}$

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