GEOMETRY CHAPTER 3 REVIEW

BE SURE TO:

  *Read the directions carefully and answer what the question is asking

  *If you get stuck, look back to the section in your notes the problem comes from. This is probably a hint that
    you should spend more time studying this section.

3.5 Slope

Find the slope of the line through each pair of points.

1) $(-8, -4), (8, -6)$ 2) $(6, -11), (4, -14)$ 3) $(-2, 18), (-13, -18)$

Find the slope of the line parallel to each given line.

4) $y = -\frac{7}{3}x + 3$ 5) $y = 3x + 1$ 6) $y = \frac{3}{4}x - 2$

Find the slope of the line perpendicular to each given line.

7) $y = \frac{1}{2}x + 2$ 8) $y = -\frac{3}{4}x - 3$ 9) $y = \frac{7}{3}x + 3$

3.6 Linear Equations

Write the equation of the line in slope-intercept form passing through the given points.

10) $(-2, -3)$ and $(-4, 3)$ 11) $(-5, -5)$ and $(-3, -1)$

12) What is the equation of the line with slope 8 through the point (-4, -5).

3.6 Continued

Write the equation of the line that best models the table.

12)

X	Y
1	-3
3	1
5	5
7	9

13)

x	y
3	0.45
5	0.75
7	1.05
10	1.50

14) Circle the table that represents the function y = 4x + 3 ?

x	y
0	3
1	4
2	8
3	12

x	y
4	11
5	12
6	13
7	14

x	y
0	3
2	11
4	19
6	27

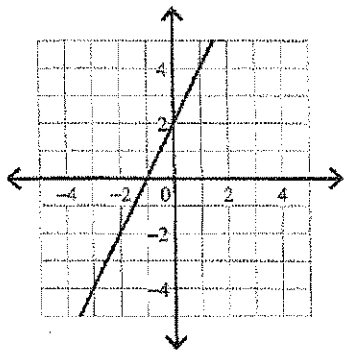| x	y
1	7
2	11
3	17
4	21

Write the equation of each line.

15.
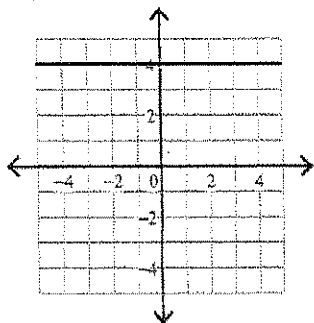
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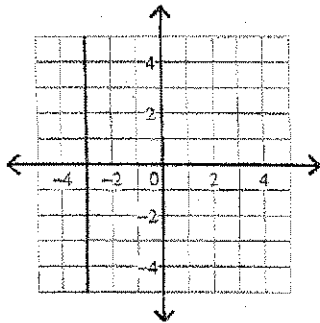
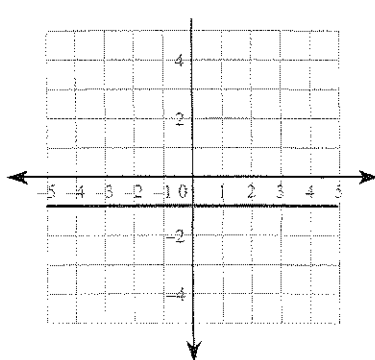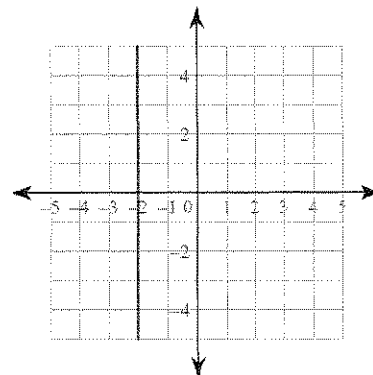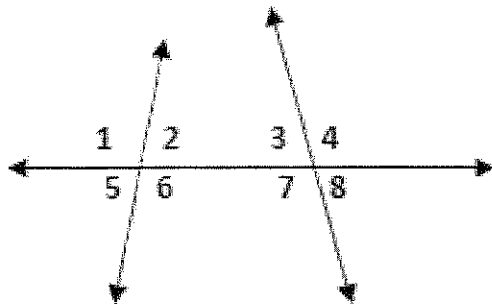
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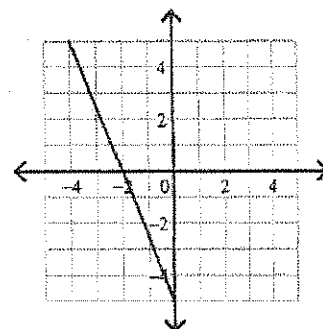
18.

19.

20.

3.2 - 3.3 - Parallel Lines and Angle Pairs.
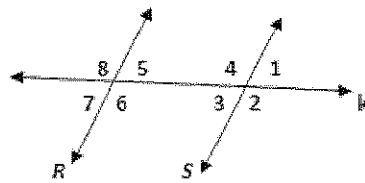
Match the correct angle pair with the given set of angles.

A. Alternate Interior

B. Same Side Interior

C. Alternate Exterior

D. Corresponding

E. Vertical

F. Linear Pair

G. No Relationship

21. $\angle 1, \angle 8$ _____

22. $\angle 3, \angle 6$ _____

23. $\angle 3, \angle 7$ _____

24. $\angle 1, \angle 6$ _____

25. $\angle 5, \angle 8$ _____

26. $\angle 2, \angle 4$ _____

27. $\angle 6, \angle 7$ _____

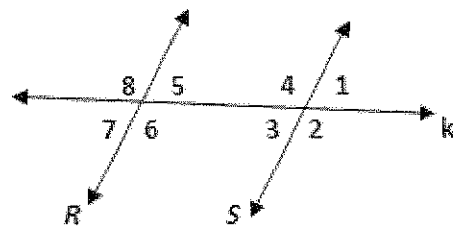
Fill in the Blanks.

by (what theorem?)

28. If R is parallel to S, then the corresponding angles are _____ by _____.

29. If R is parallel to S, then alternate interior angles are _____ by _____.

30. If R is parallel to S, then same side interior angles are _____ by _____.

31. If R is parallel to S, then the alternate exterior angles are _____ by _____.

32. If $\angle 2 and \angle 6$ are _____, then R is Parallel to S by_____ _____.

33. If $\angle 3 and \angle 6$ are _____, then R is Parallel to S by_____ _____.

34. If $\angle 1 and \angle 7$ are _____, then R is Parallel to S by_____ _____.

35. If $\angle 3 and \angle 5$ are _____, then R is Parallel to S by_____ _____.

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36. Given $\angle 1$ = 4x - 3 and $\angle 7$ = 3x+ 4 , find the value of x that makes
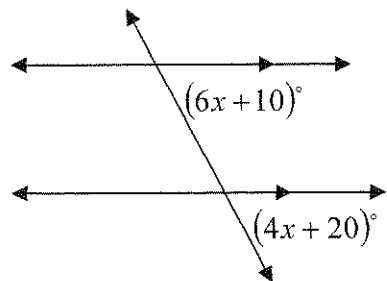R and S parallel lines.
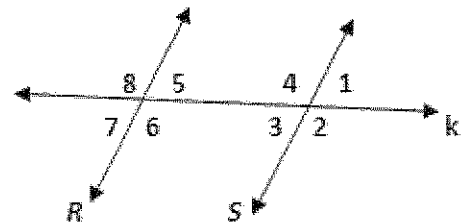
37. If R and S are parallel lines and $\angle 3$ = 2x + 15 and $\angle 5$ = 5x+ 3 ,
find the measure of $\angle 2$.

38. If R and S are parallel lines and $\angle 5 = 3x + 30$ and $\angle 4 = 5x + 22$, find the measure of $\angle 2$.
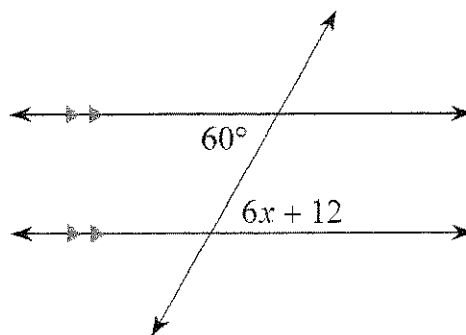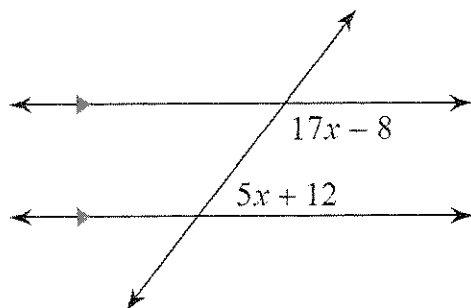
Find the value of all missing variables.

39.

$(6x+10)^\circ$

$(4x+20)^\circ$

40.

$60°$

$6x + 12$

41.

$17x - 8$

$5x + 12$

42.

$88°$

y°

$(x+12)^\circ$

z°

$(x-18)$