Name: _____ Date: _____ Block: _____

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

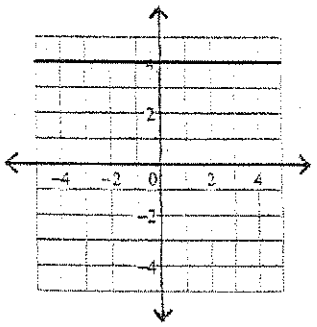
x	y
4	11
5	12
6	13
7	14

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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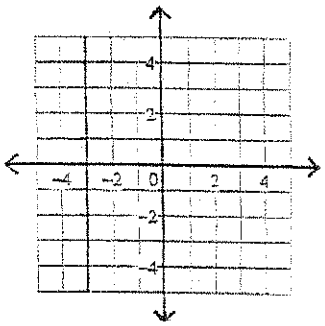

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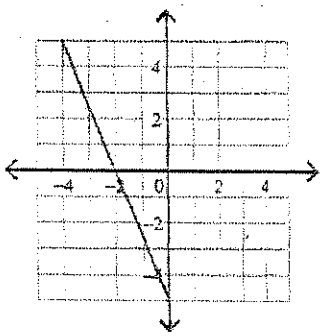

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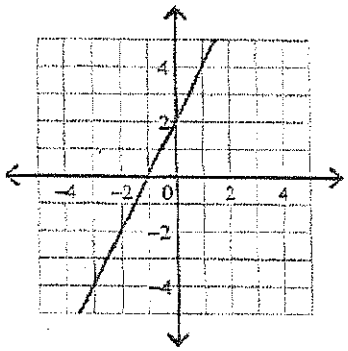

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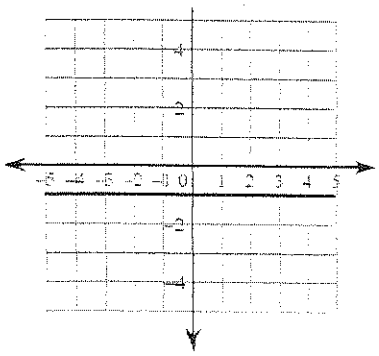

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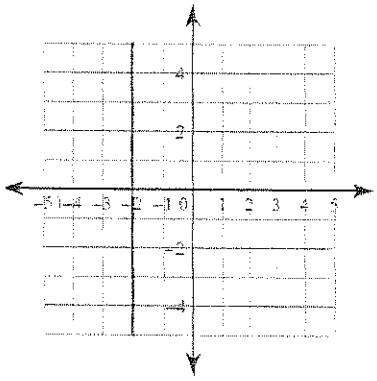
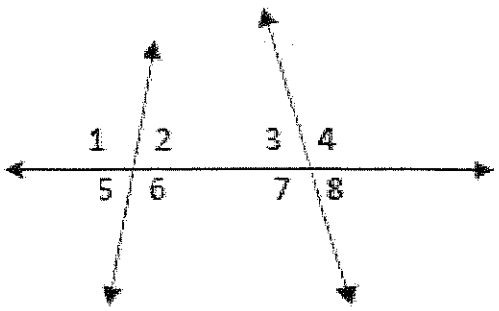


3.2 - 3.3 - Parallel Lines and Angle Pairs.

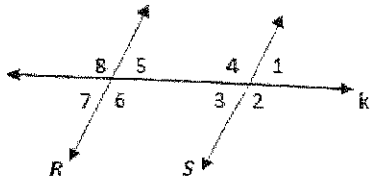
Match the correct angle pair with the given set of angles.

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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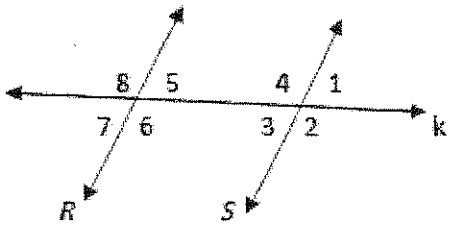
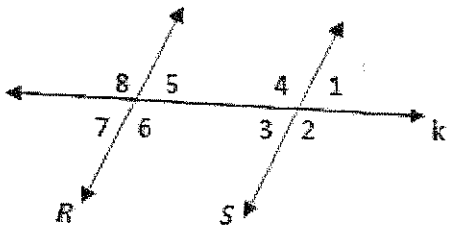
36. Given $\angle 1$ = 4x - 3 and $\angle 7$ = 3x+ 4 , find the value of x that makes R and S parallel lines.



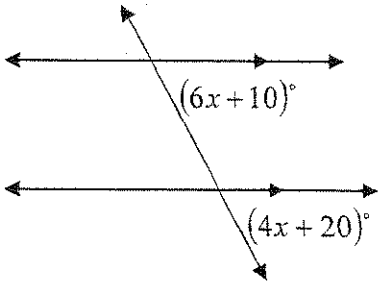
37. If R and S are parallel lines and $\angle 3$ = 2x + 15 and $\angle 5$ = 5x+ 3 , find the measure of $\angle 2$.

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.



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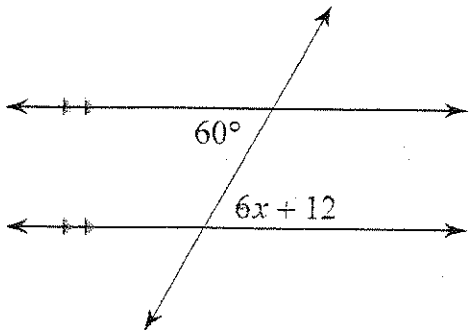

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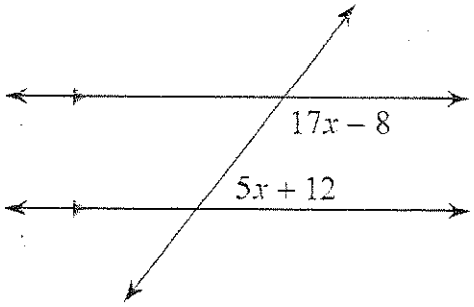

42.