

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.

3.5-3.6 Slope and Linear Equations

Find the missing variable.

1) $(x, -4), (7, 6)$ when the slope is $5/2$.

2) $(-22, -4), (-12, y)$ when the slope is $3/5$.

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

3) $(-2, -3)$ and $(-4, 3)$

4) $(-5, -5)$ and $(-3, -1)$

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

Write the equation of the line through the given point and parallel to the given line:

6) $y = -\frac{7}{3}x + 3$; $(-9, 5)$

7) $y = 3x + 1$; $(5, 4)$

Write the equation of the line through the given point and perpendicular to the given line:

8) $y = \frac{1}{2}x + 2$; $(-3, -7)$

9) $y = -\frac{3}{4}x - 3$; $(5, 3)$

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

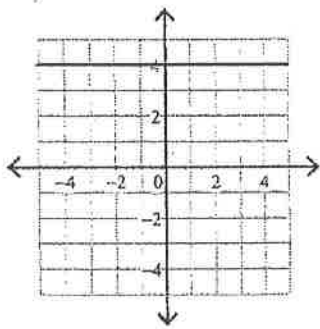
x	y
4	11
5	12
6	13
7	14

x	y
0	3
2	11
4	19
6	27

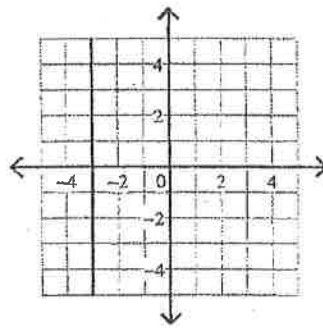
x	y
1	7
2	11
3	17
4	21

Write the equation of each line.

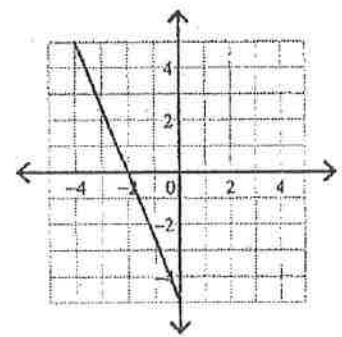
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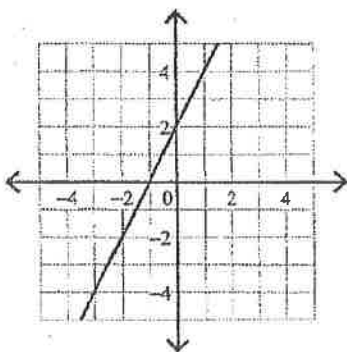
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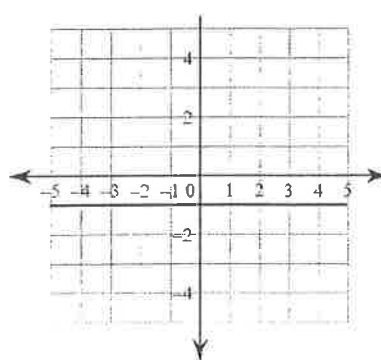
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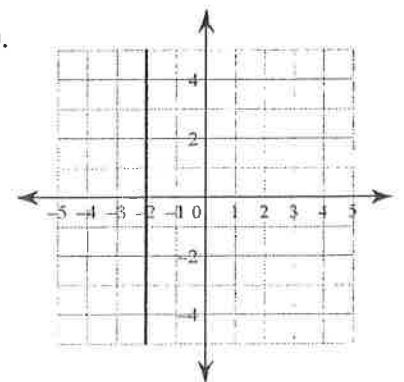
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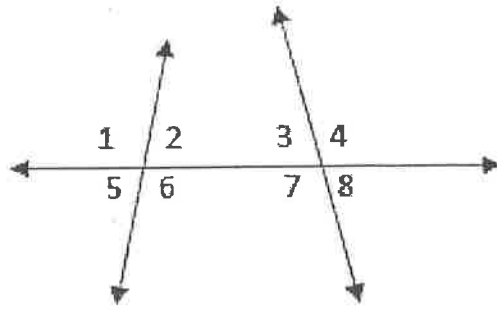
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3.2 - 3.3 - Parallel Lines and Angle Pairs.

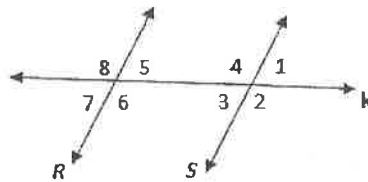
Match the correct angle pair with the given set of angles.

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

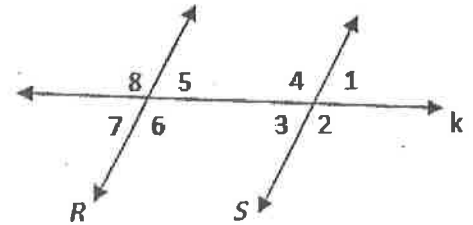
Fill in the Blanks.



by (what theorem?)

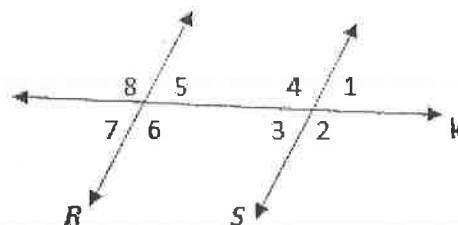
- 28. If R is parallel to S, then the corresponding angles are _____ by _____.
- 29. If R is parallel to S, then alternate interior angles are _____ by _____.
- 30. If R is parallel to S, then same side interior angles are _____ by _____.
- 31. If R is parallel to S, then the alternate exterior angles 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 _____.

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



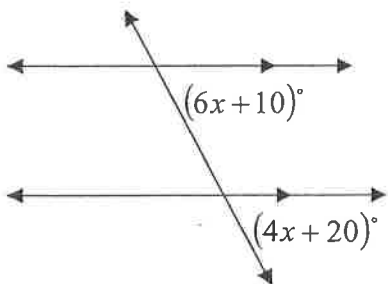
37. If R and S are parallel lines and $\angle 3 = 2x + 15$ and $\angle 5 = 5x + 3$, find the measure of $\angle 2$.

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

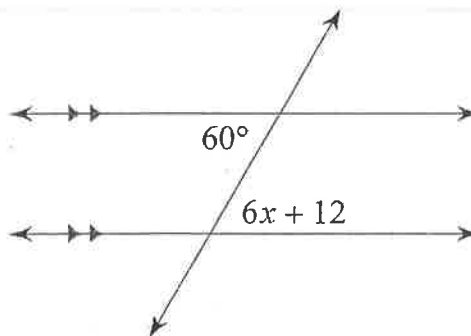


Find the value of all missing variables.

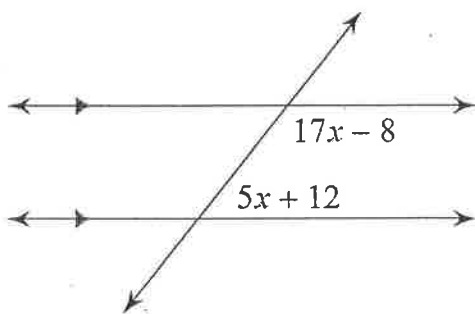
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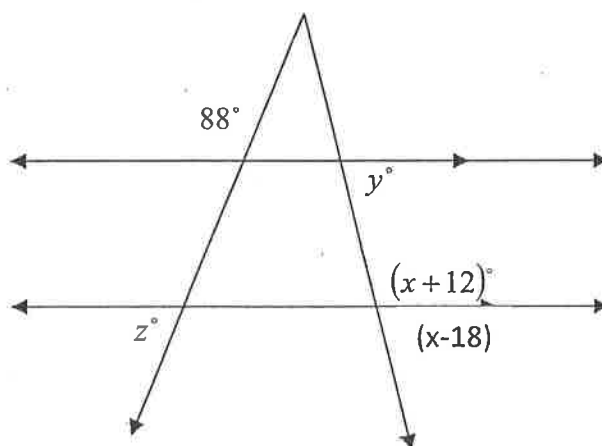
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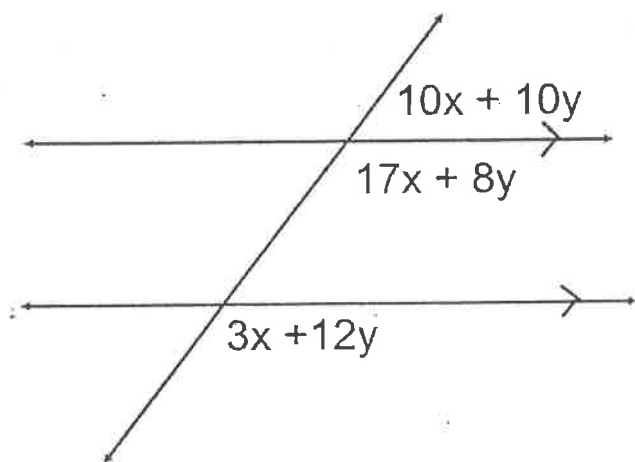
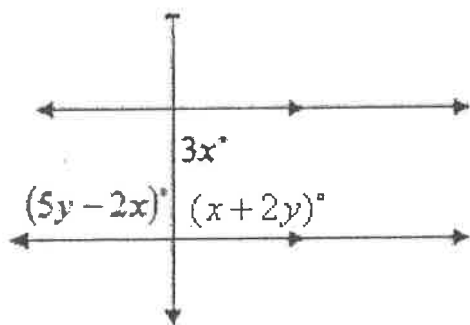


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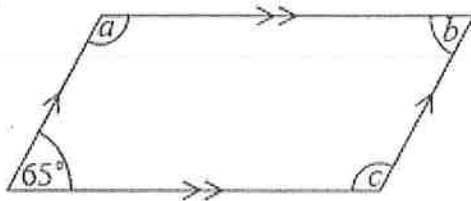




Chapter 3 - Missing Angles Worksheet

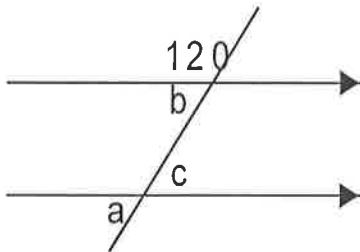
Find all missing angles.

1. Find the size of the three unknown angles in the parallelogram opposite:



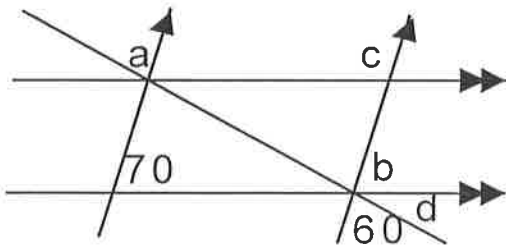
a =
b =
c =

- 2.



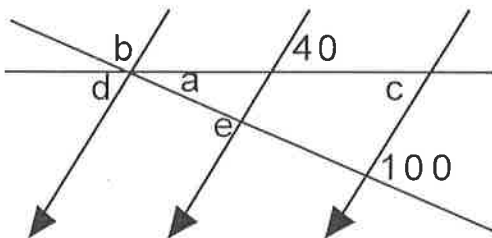
a =
b =
c =

- 3.



a =
b =
c =
d =

- 4.



a =
b =
c =
d =
e =