

Algebra 1 Exam 2 Review Chapter 4, 5, and 6

Name: _____

1. What is Standard Form?
2. What is Point-Slope Form?
3. What is Slope Intercept Form?

Chapter 4: Writing Linear Equations

Write the equation of the line . Give answers in slope intercept form.

4. $m = 3$ $b = 6$
5. Slope = 2, y-intercept = 10
6. Slope = $\frac{1}{2}$, y-intercept = -4

7. point (1, 2), $m=6$
8. $(-3, 5)$, $m = 2$
9. (1, 2) and (3, 4)
10. $(-5, 6)$ and $(-2, 9)$

Write the equation in standard form.

11. $y = 2x - 5$
12. $y = -8x + 4$
13. $y = 9x - 2$

Write the equation in slope-intercept form.

14. $2x + 3y = 6$
15. $4x + y = 15$
16. $3x - 6y = 12$

Write the equation of the line that is parallel.

17. (1, 2) and $y = 3x - 5$
18. $(-5, 3)$ and $y = 2x + 5$

Write the equation of the line that is perpendicular.

19. (1, 3) and $y = \frac{1}{2}x + 5$
20. $(-2, 5)$ and $y = -2x + 8$

Chapter 5 : Solving and Graphing Inequalities

Graph on a number line:

1. $x > 3$

2. $-5 < x \leq 4$

3. $x \leq -4$ or $x > 2$

Solve the inequality.

4. $x - 5 \geq 2$

5. $3x + 5 < 11$

6. $-4x \geq 12$

7. $\frac{x}{5} < 3$

8. $3 + x \leq 4$ or $2x > 20$

9. $3 \leq 2x - 1 < 13$

Solve the absolute value equations.

10. $|x| = 5$

11. $|2x + 3| = 7$

12. $2|x + 1| = 6$

13. $|x - 4| < 7$

14. $|2x + 3| \leq 5$

15. $|x| > 4$

16. $|x + 2| \geq 5$

17. $|x + 5| = -9$

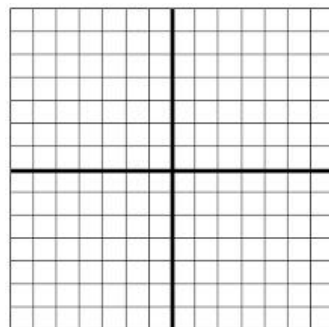
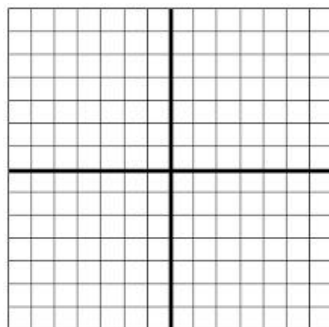
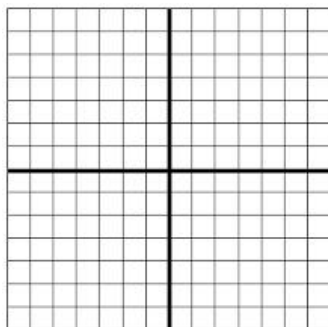
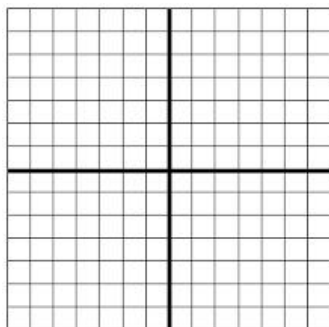
Graph the inequality. Remember to shade.

18. $y \leq 2x - 1$

19. $2x + 3y > 6$

20. $x \leq 3$

21. $y > -3$



Chapter 6: Systems of Equations

Solve by Graphing.

$$22. y = -x + 6$$

$$x - y = 2$$

$$23. -x + y = -7$$

$$x + 4y = -8$$

Solve Using Substitution.

$$24. y = 2x + 5$$

$$3x + y = 10$$

$$25. 3x + y = -7$$

$$-2x + 4y = 0$$

Solve Using Elimination.

$$26. 7x - 2y = 5$$

$$7x - 3y = 4$$

$$27. 4x + 5y = 35$$

$$-3x + 2y = -9$$

Use any Method

$$28. -2x - 5y = 9$$

$$3x + 11y = 4$$

$$29. -2x + y = 4$$

$$y = 1 - x$$

Algebra 1A Exam 2 Review Chapter 4, 5, 6

Chapter 4: Writing Linear Equations

Know How to.....

Write the equation of a line given slope and y-intercept

Write the equation of the line given point and slope

Write the equation of line given 2 points

Write equation in standard form

Write equation in slope-intercept form

Write equation of parallel line

Write equation of perpendicular line

Chapter 5: Linear Inequalities

Know how to.....

Graph inequalities on number line

Solve inequalities

Solve and/or inequalities

Solve absolute values

Graph inequalities and shade

Chapter 6: Systems

Know how to.....

Solve a system with graphing

Solve a system with substitution

Solve a system with elimination