

General Algebra II Review Unit 2 page 1 _____

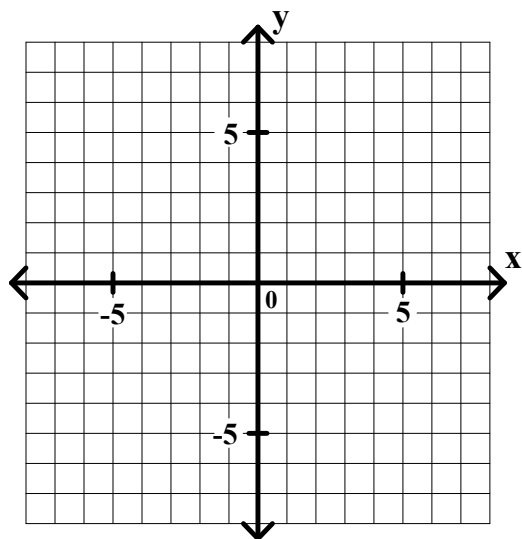
For each of the following linear equations in two variables: (a) find the x and y intercepts, (b) write the equation in slope-intercept form, and (c) graph the equation.

1. $3x + 5y = 15$

(a) x intercept: ____ y intercept: ____

(b) slope intercept equation: _____

(c)

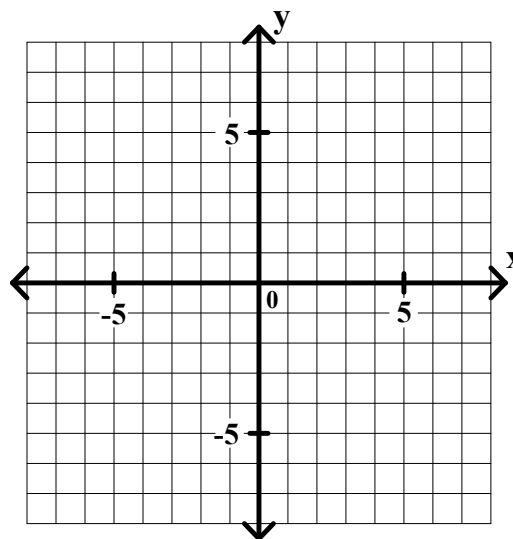


2. $5x - 6y = 12$

(a) x intercept: ____ y intercept: ____

(b) slope intercept equation: _____

(c)



Graph each of the following. Label each graph with its equation.

3. $3x + 5y = 10$

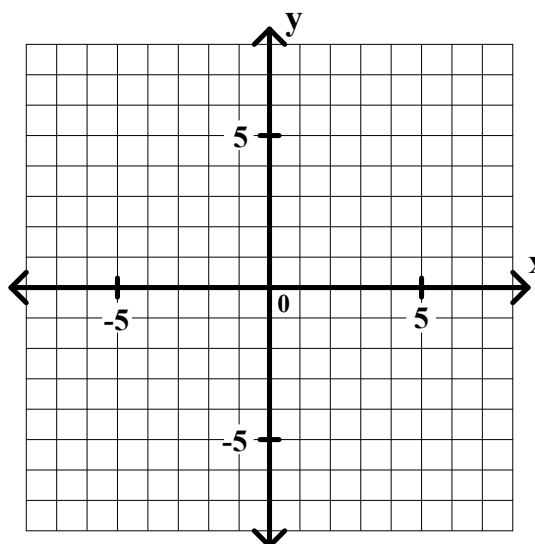
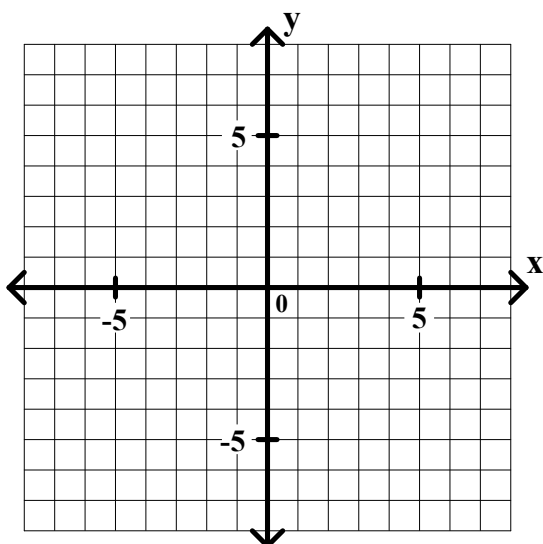
6. $x + 4y = -8$

4. $4x - 3y = 12$

7. $x - 2y = 6$

5. $y = -3$

8. $x = 4$



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Write the equation of each line described below. If the line is oblique, then write the slope-intercept equation.

9. The horizontal line through $(-1, 5)$

10. The line with "no slope" through $(3, 7)$

11. The line with slope $\frac{2}{3}$ and y-intercept 2

12. The line with slope $-\frac{3}{5}$ through $(0, 3)$

13. The line with slope $-\frac{4}{3}$ through $(-6, 0)$

14. The line with slope $\frac{1}{4}$ through $(6, -3)$

15. The line through $(6, -4)$ and $(0, -1)$

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Write the equation of each line described below. If the line is oblique, then write the slope-intercept equation.

16. The line through $(-3, 2)$ and $(6, 5)$ _____

17. The line through $(4, 3)$ and $(4, -2)$ _____

18. The line through $(-4, 0)$ and $(5, 3)$ _____

19. The line through $(5, -2)$ that is parallel to $y = 4$ _____

20. The line through $(-1, -3)$ that is perpendicular to $y = -3$ _____

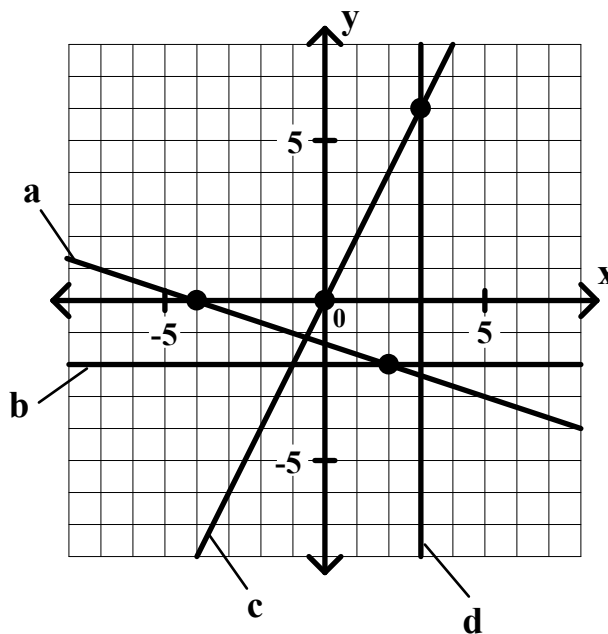
21. The line through $(3, 5)$ that is parallel to $2x - 3y = 9$ _____

22. The line through $(-2, 0)$ that is perpendicular to $x + 2y = 0$ _____

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Write the equation of each line graphed below. If the line is oblique, then write the slope-intercept equation.

23. Line a:



24. Line b:

25. Line c:

26. Line d: