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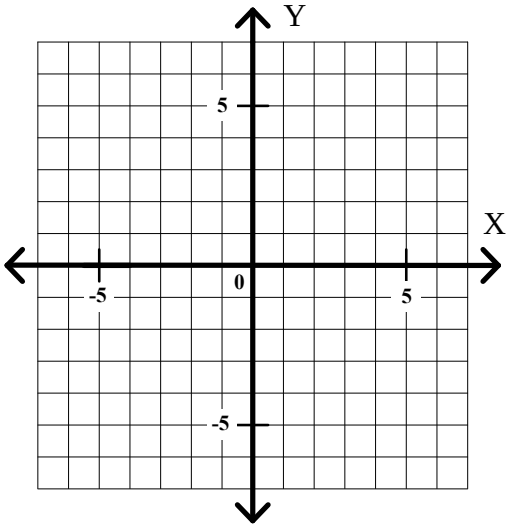
Graph each of the following equations. (Use the equation to label the graph.)

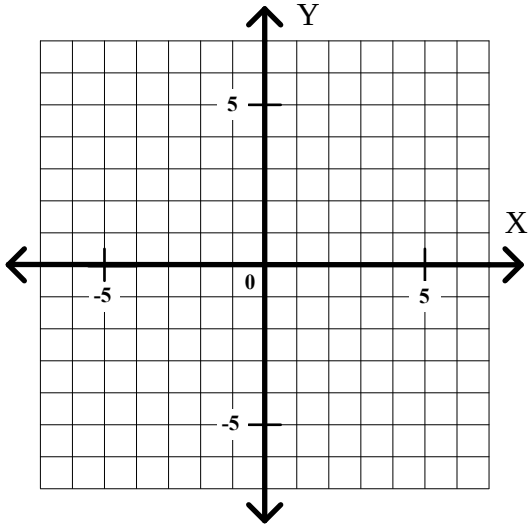
1. **y = -3x + 5**

2. **x = -3**

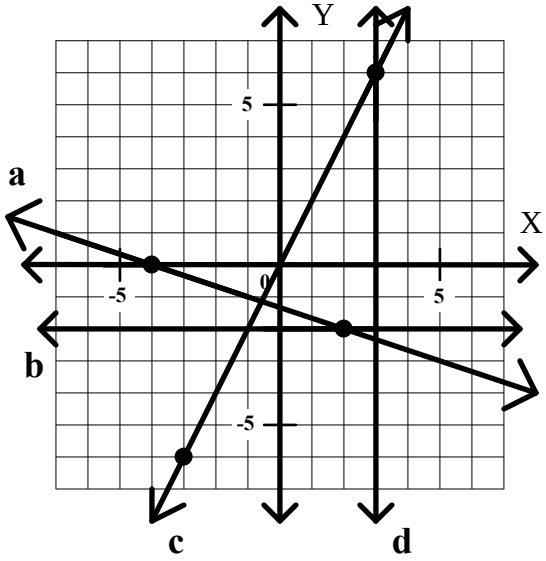
3. **x – 4y = 12**

4. **y = 5**





Find the equation of each of the lines graphed below. If the line is oblique, use slope- intercept form.



5. **a:** _____

6. **b:** _____

7. **c:** _____

8. **d:** _____

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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 line through (-2,5) that has slope m = -3/2. _____

10. The line through (-3,4) and (6,-2) . _____

11. The horizontal line through (-2,5). _____

12. The line through (3,-1) that is parallel to 2x – 3y = 3. _____

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

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Solve the following system of equations graphically.

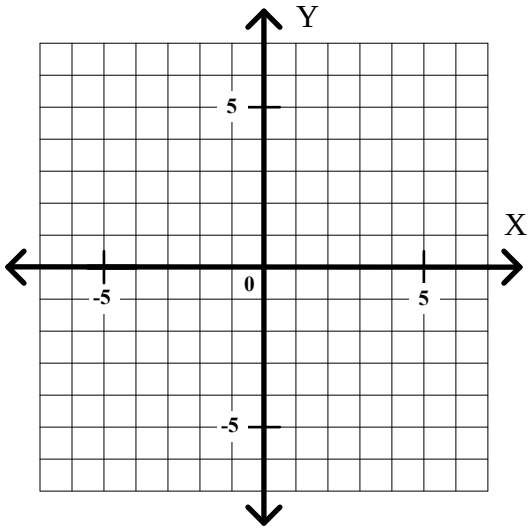
14.

3x – 2y = 14

x + 3y = 12

x = ____

y = ____



Solve the following systems using the substitution method.

15. **3x + 5y = 9** **x = _____**

y = 2x + 7 **y = _____**

16. **4x – 3y = 1** **x = _____**

y = 2x – 3 **y = _____**

Solve the following systems using the multiplication-addition method.

17. **2x + 5y = 1** **x = _____**

3x – 2y = 11 **y = _____**

18. **7x + 6y = 12** **x = _____**

3x + 10y = 7 **y = _____**

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Solve each of the problems algebraically. **Use a system of 2 equations with 2 variables.**

19. A collection of 50 ordinary dimes and quarters is worth $7.70 . How many coins of each type are there in the collection?

20. Coffee worth $1.50 per pound is mixed with coffee worth 90¢ per pound to produce a 30 pound blend that is worth $1.06 per pound. How many pounds of each type are in the mixture?