

Linear Equations and Graphs

Rearrange the Equations for "y"

1) $2x + 7y = -35$

2) $13x - 7y = 35$

3) $x - y = -2$

4) $11x - 5y = -25$

5) $5x + 6y = -18$

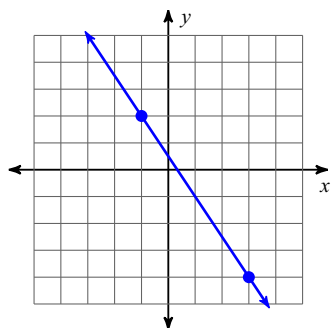
6) $6x - y = -8$

7) $x + 2y = -14$

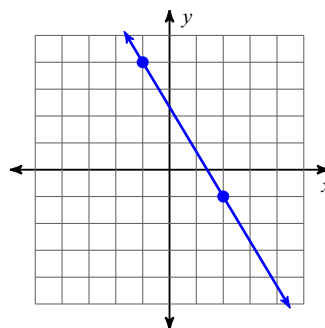
8) $x - 3y = 6$

Find the slope of each line. (rise /run)

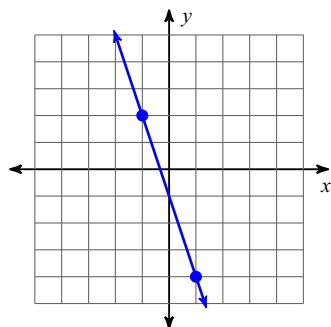
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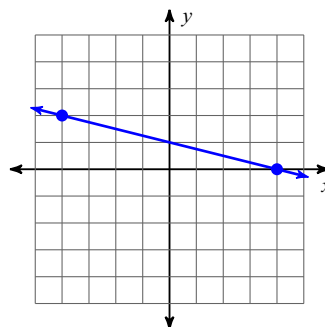
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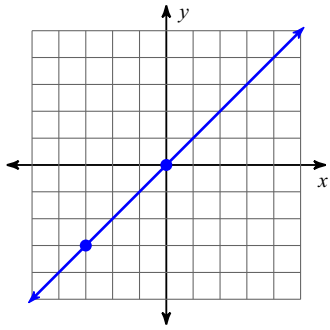
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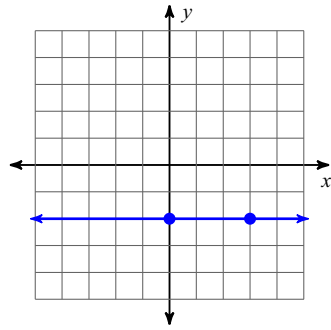
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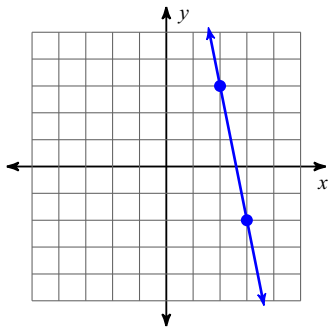
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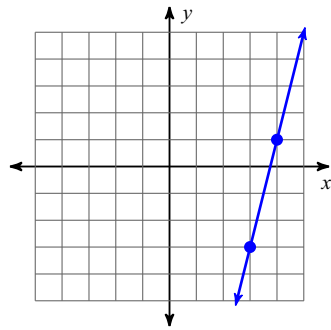
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15)

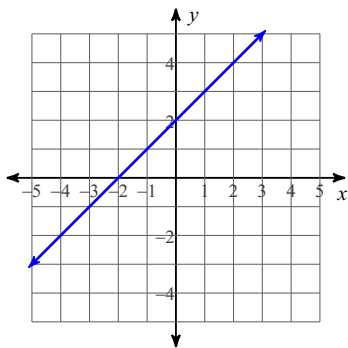


16)

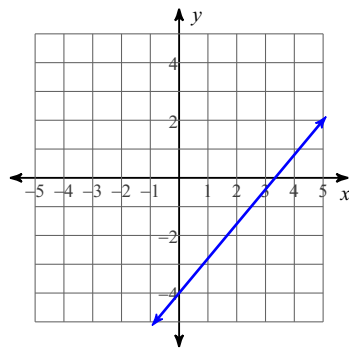


Write equation of each line.

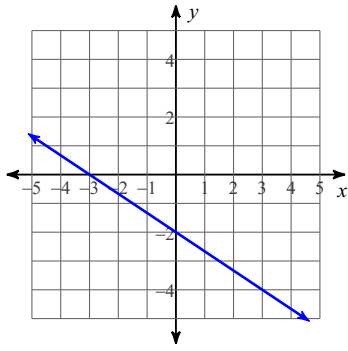
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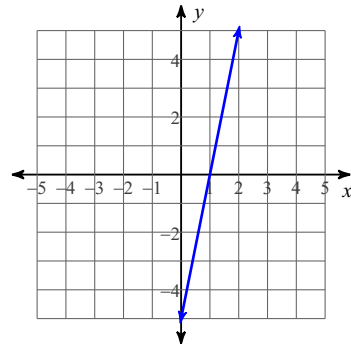
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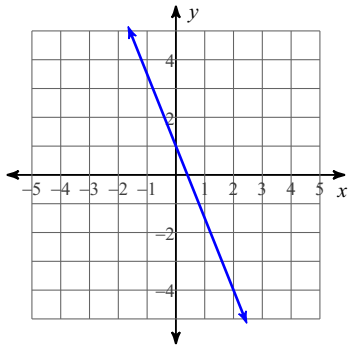
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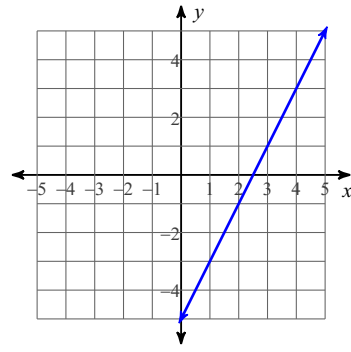
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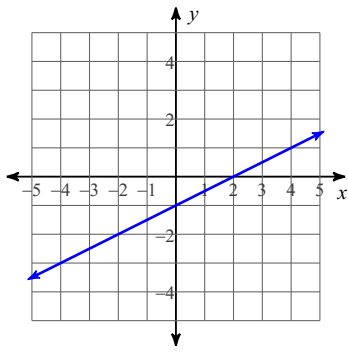
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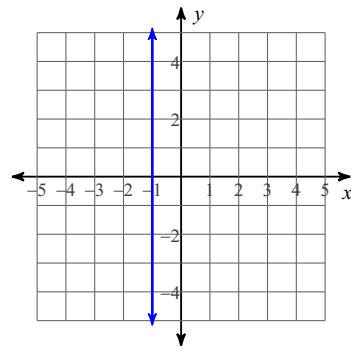
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23)

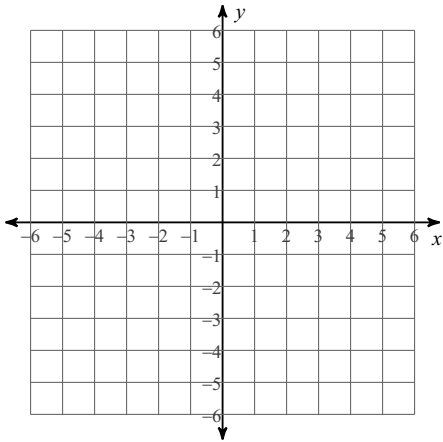


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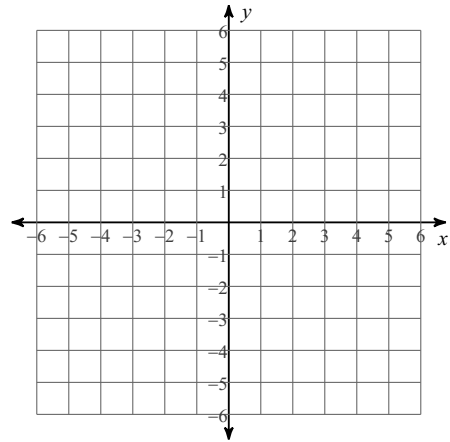


Sketch the graph of each line. (Hint you must rearrange your equation to "y=")

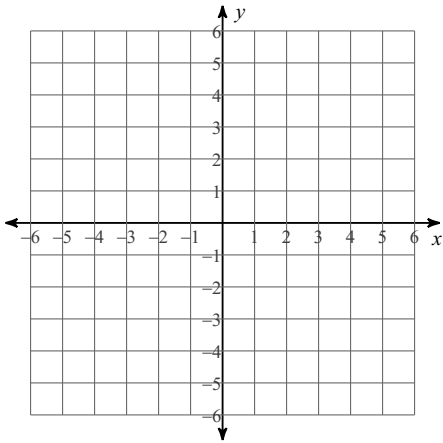
25) $3x - 2y = 6$



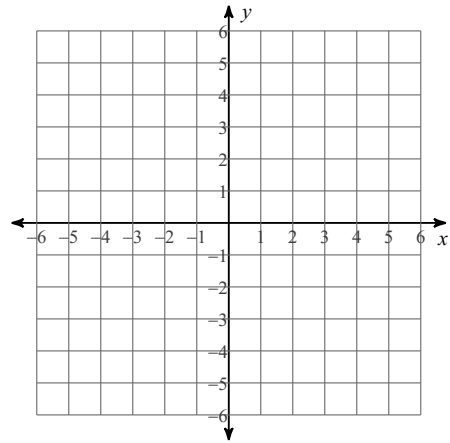
26) $9x - y = -4$



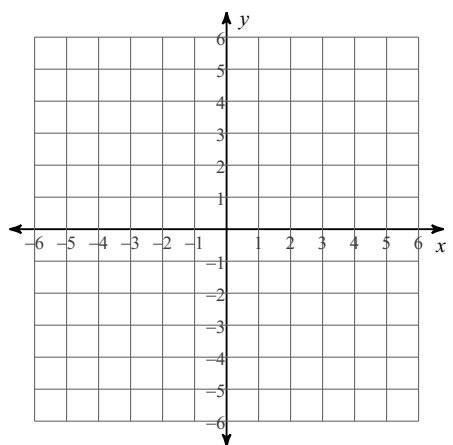
27) $3x - 4y = -16$



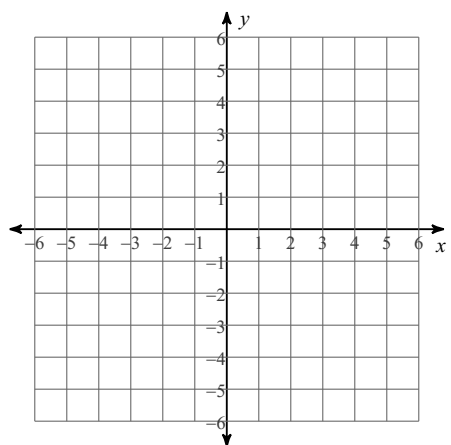
28) $x - 4y = 8$



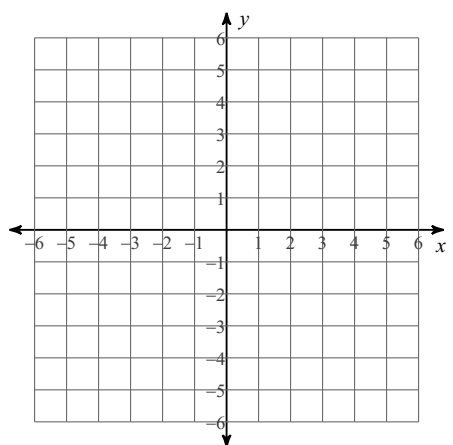
29) $4x + 5y = 20$



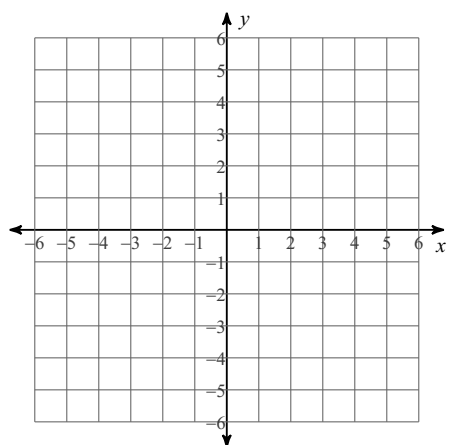
30) $3x + y = 5$



31) $x - 2y = 2$



32) $2x + 5y = -5$



Answers to Linear Equations and Graphs

1) $y = -\frac{2}{7}x - 5$

2) $y = \frac{13}{7}x - 5$

3) $y = x + 2$

4) $y = \frac{11}{5}x + 5$

5) $y = -\frac{5}{6}x - 3$

6) $y = 6x + 8$

7) $y = -\frac{1}{2}x - 7$

8) $y = \frac{1}{3}x - 2$

9) $-\frac{3}{2}$

10) $-\frac{5}{3}$

11) -3

12) $-\frac{1}{4}$

13) 1

14) 0

15) -5

16) 4

17) $y = x + 2$

18) $y = \frac{6}{5}x - 4$

19) $y = -\frac{2}{3}x - 2$

20) $y = 5x - 5$

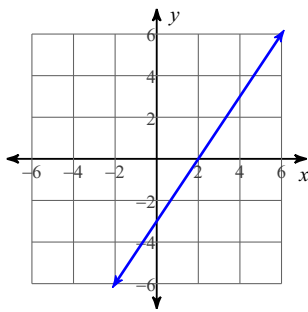
21) $y = -\frac{5}{2}x + 1$

22) $y = 2x - 5$

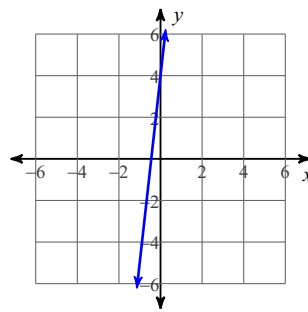
23) $y = \frac{1}{2}x - 1$

24) $x = -1$

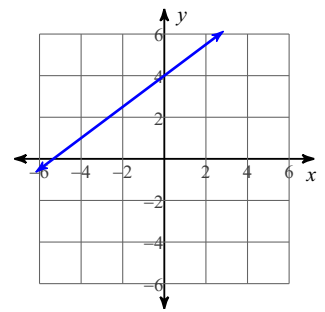
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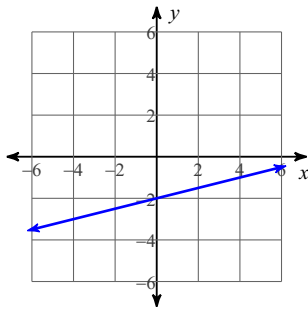
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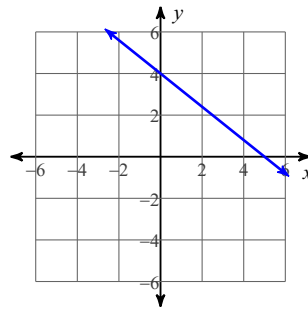
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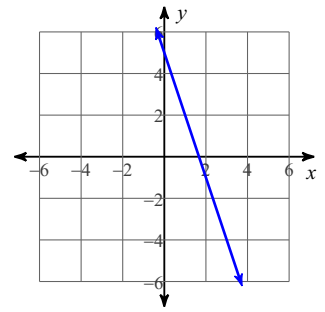
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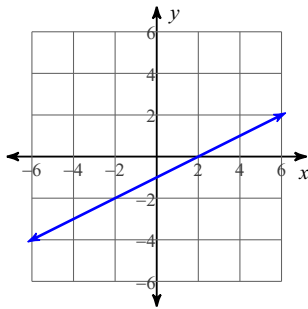
29)



30)



31)



32)

