

17-10-09

**Write the point-slope form of the equation of the line through the given points.**

1) through:  $(-1, -2)$  and  $(3, -4)$

2) through:  $(0, 5)$  and  $(-3, -4)$

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

4) through:  $(0, -1)$  and  $(-1, 4)$

**Write the standard form of the equation of the line through the given points.**

5) through:  $(5, -5)$  and  $(-1, 3)$

6) through:  $(-4, 3)$  and  $(4, -1)$

7) through:  $(3, 5)$  and  $(4, -2)$

8) through:  $(5, 3)$  and  $(4, -2)$

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

9) through:  $(-5, -3)$  and  $(-4, 0)$

10) through:  $(0, -3)$  and  $(5, -2)$

11) through:  $(0, 1)$  and  $(5, 2)$

12) through:  $(-5, 4)$  and  $(-3, -1)$

**Write the standard form of the equation of the line described.**

13) through:  $(4, -3)$ , parallel to  $y = -\frac{1}{4}x - 5$

14) through:  $(-4, 4)$ , parallel to  $y = -\frac{3}{4}x + 5$

15) through:  $(5, -3)$ , parallel to  $y = -\frac{4}{5}x - 4$

16) through:  $(2, -1)$ , parallel to  $y = \frac{1}{2}x - 5$

**Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

17) Slope =  $\frac{4}{3}$ , y-intercept = 1

18) Slope =  $-1$ , y-intercept = 3

**Write the standard form of the equation of each line given the slope and y-intercept.**

19) Slope =  $-\frac{8}{5}$ , y-intercept = 5

20) Slope =  $\frac{6}{5}$ , y-intercept = 1

21) Slope =  $\frac{9}{5}$ , y-intercept = 5

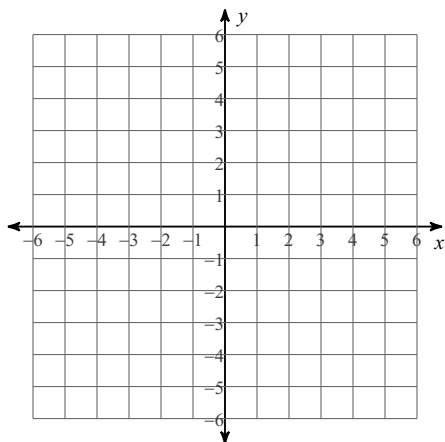
22) Slope =  $\frac{1}{4}$ , y-intercept = -4

23) Slope =  $-\frac{8}{5}$ , y-intercept = -5

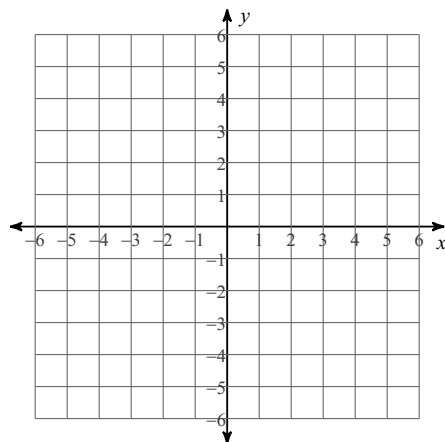
24) Slope =  $-\frac{7}{5}$ , y-intercept = -3

Sketch the graph of each line.

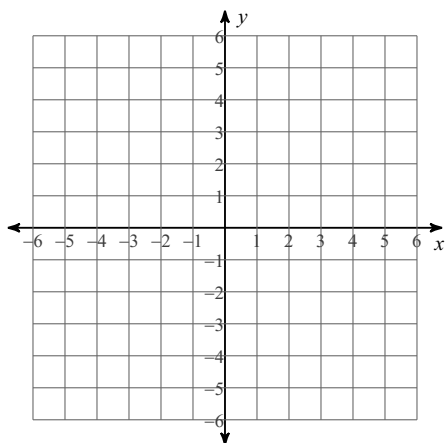
25)  $x$ -intercept =  $-1$ ,  $y$ -intercept =  $3$



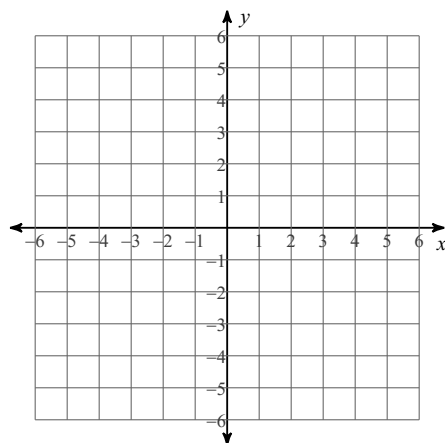
26)  $x$ -intercept =  $2$ ,  $y$ -intercept =  $5$



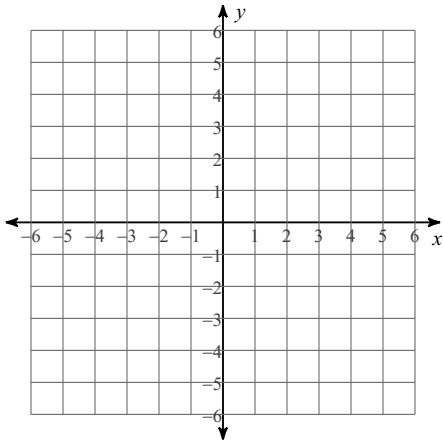
27)  $6x - 5y = -25$



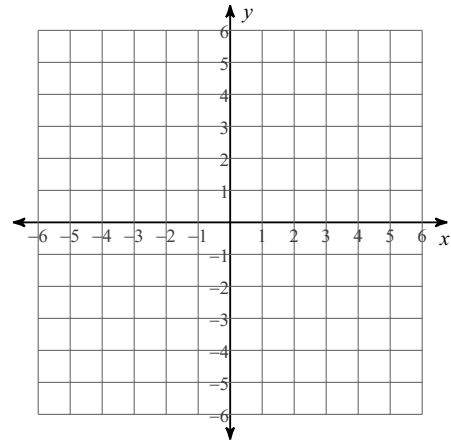
28)  $5x - y = 5$



29)  $y = 3x - 4$



30)  $y = -3$



## Answers to 17-10-09

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

2)  $y - 5 = 3x$

3)  $y - 2 = -4(x - 3)$

4)  $y + 1 = -5x$

5)  $4x + 3y = 5$

6)  $x + 2y = 2$

7)  $7x + y = 26$

8)  $5x - y = 22$

9)  $y = 3x + 12$

10)  $y = \frac{1}{5}x - 3$

11)  $y = \frac{1}{5}x + 1$

12)  $y = -\frac{5}{2}x - \frac{17}{2}$

13)  $x + 4y = -8$

14)  $3x + 4y = 4$

15)  $4x + 5y = 5$

16)  $x - 2y = 4$

17)  $y = \frac{4}{3}x + 1$

18)  $y = -x + 3$

19)  $8x + 5y = 25$

20)  $6x - 5y = -5$

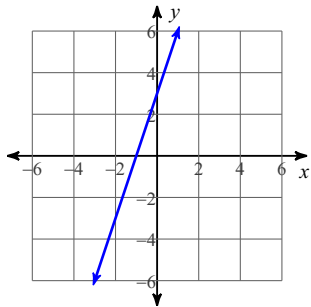
21)  $9x - 5y = -25$

22)  $x - 4y = 16$

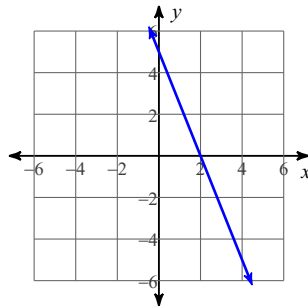
23)  $8x + 5y = -25$

24)  $7x + 5y = -15$

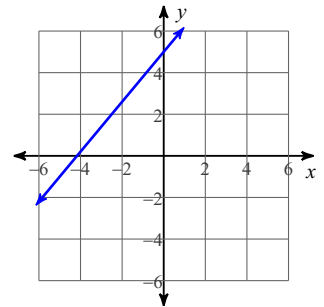
25)



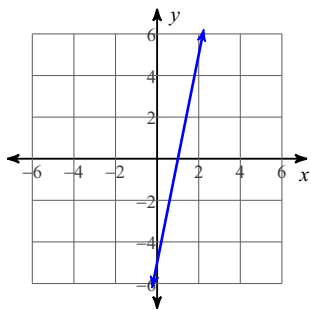
26)



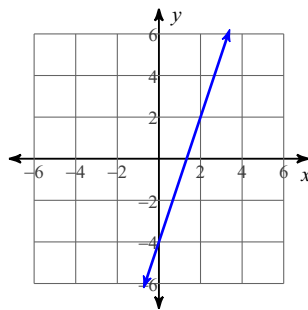
27)



28)



29)



30)

