

15-10-28-T8

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

1)  $y = -3$

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

3)  $x = -3$

4)  $y = -2x - 6$

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

6)  $0 = x$

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

8)  $y + 4 = 3(x + 1)$

9)  $y - 3 = -\frac{1}{2}(x + 4)$

10)  $y - 3 = x - 5$

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

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

12) through:  $(0, 4)$  and  $(0, -3)$

13) through:  $(-5, 2)$  and  $(-1, 0)$

14) through:  $(-1, 5)$  and  $(-2, 3)$

15) through:  $(2, 2)$  and  $(-1, 2)$

16) through:  $(-1, 2)$  and  $(5, 4)$

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

17) through:  $(4, 4)$ , parallel to  $y = \frac{9}{4}x - 1$

18) through:  $(-4, -3)$ , parallel to  $y = -\frac{1}{2}x - 2$

19) through:  $(-2, 5)$ , parallel to  $y = -\frac{4}{3}x + 3$

20) through:  $(4, -2)$ , parallel to  $y = \frac{1}{2}x - 3$

21) through:  $(-2, 3)$ , parallel to  $y = -5x + 3$

22) through:  $(1, 0)$ , parallel to  $y = 4x - 1$

23) through:  $(-3, 5)$ , perp. to  $y = \frac{2}{5}x + 1$

24) through:  $(5, 2)$ , perp. to  $y = -\frac{10}{3}x + 2$

25) through:  $(-3, -5)$ , perp. to  $y = -\frac{1}{8}x - 1$

26) through:  $(0, -5)$ , perp. to  $y = -\frac{5}{6}x + 2$

27) through:  $(-3, -4)$ , perp. to  $y = -2x + 2$

28) through:  $(-3, -2)$ , perp. to  $y = -x$

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

29) through:  $(5, 4)$  and  $(0, 5)$

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

31) through:  $(0, 4)$  and  $(-3, -1)$

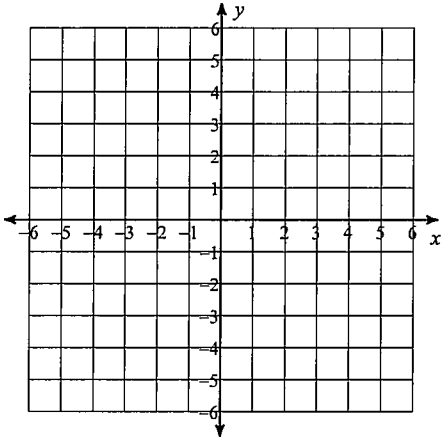
32) through:  $(0, -5)$  and  $(1, -1)$

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

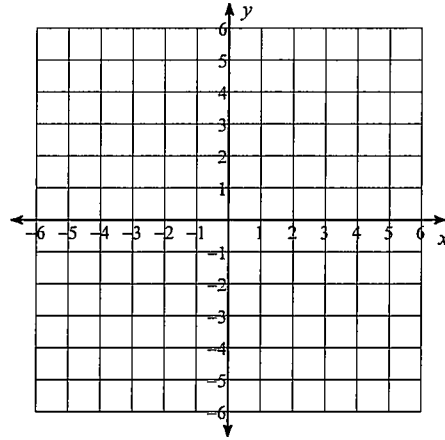
34) through:  $(-4, -3)$  and  $(0, 4)$

Sketch the graph of each line.

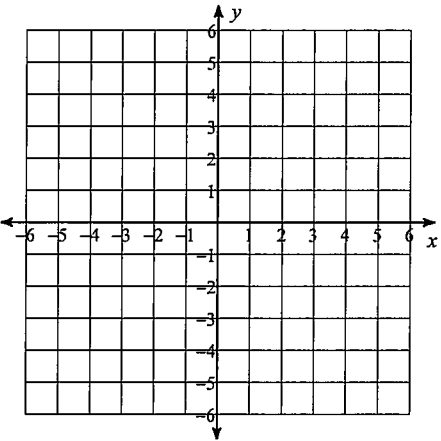
35)  $3x - 2y = 10$



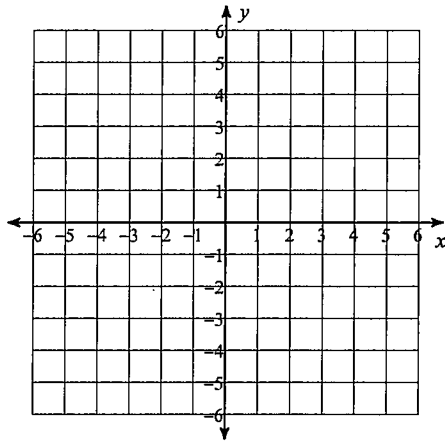
36)  $5x + 3y = 3$



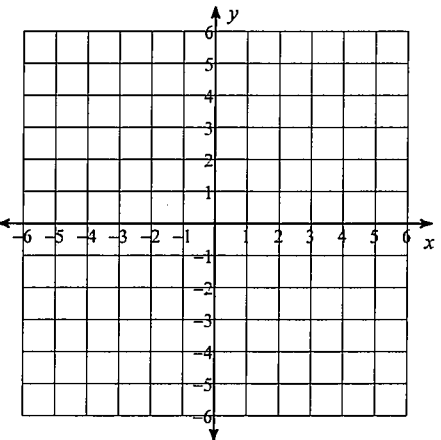
37)  $x + 5y = -5$



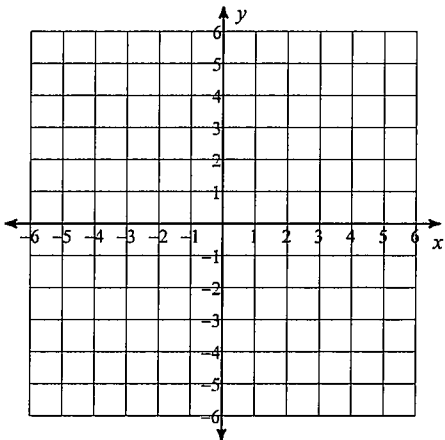
38)  $7x - 5y = -25$



39)  $6x - y = -3$



40)  $x + y = -2$



# Answers to 15-10-28-T8

1)  $y = -3$

5)  $2x + 3y = -9$

9)  $x + 2y = 2$

13)  $x + 2y = -1$

17)  $9x - 4y = 20$

21)  $5x + y = -7$

25)  $8x - y = -19$

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

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

2)  $x - 5y = 15$

6)  $x = 0$

10)  $x - y = 2$

14)  $2x - y = -7$

18)  $x + 2y = -10$

22)  $4x - y = 4$

26)  $6x - 5y = 25$

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

34)  $y = \frac{7}{4}x + 4$

3)  $x = -3$

7)  $x - 2y = 2$

11)  $2x - y = -3$

15)  $y = 2$

19)  $4x + 3y = 7$

23)  $5x + 2y = -5$

27)  $x - 2y = 5$

31)  $y = \frac{5}{3}x + 4$

35)

4)  $2x + y = -6$

8)  $3x - y = 1$

12)  $x = 0$

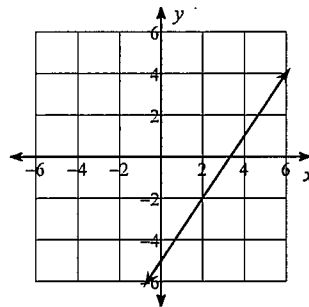
16)  $x - 3y = -7$

20)  $x - 2y = 8$

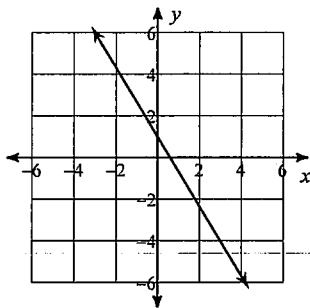
24)  $3x - 10y = -5$

28)  $x - y = -1$

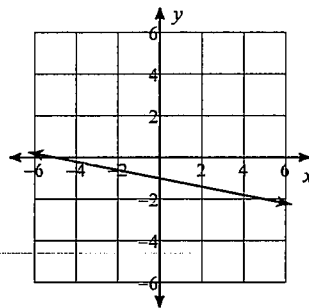
32)  $y = 4x - 5$



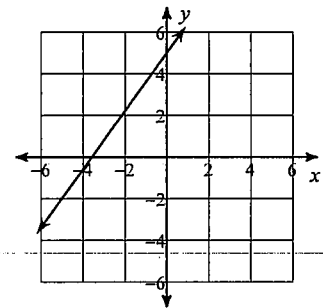
36)



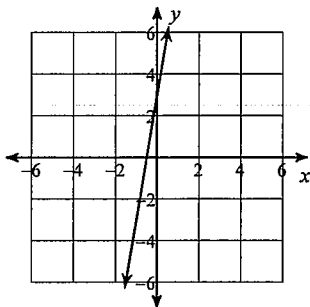
37)



38)



39)



40)

