Math 8 Honors

17-10-16

Write the standard form of the equation of each line.

1) $0 = -4x - 3 + 3y$

2) $x = -y - 2$

3) $-y = -7x + 5$

4) $0 = -x - 2y + 4$

Write the standard form of the equation of the line through the given point with the given slope.

5) through: $(2, -3)$, slope $= -\frac{5}{2}$

6) through: $(-2, 1)$, slope $= \frac{1}{4}$

7) through: $(2, -3)$, slope $= -\frac{1}{2}$

8) through: $(-5, -5)$, slope $= \frac{9}{5}$

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

9) through: $(0, 5)$ and $(5, 1)$

10) through: $(1, 0)$ and $(4, 3)$

11) through: $(0, 5)$ and $(-5, 4)$

12) through: $(0, -3)$ and $(-5, 3)$

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

13) through: $(4, 0)$, parallel to $y = -2x - 4$

14) through: $(4, -4)$, parallel to $y = -2x + 2$

15) through: $(5, 4)$, parallel to $y = \frac{9}{5}x - 4$

16) through: $(2, 5)$, parallel to $y = x - 2$

17) through: $(-4, 5)$, perp. to $y = \frac{4}{9}x + 2$

18) through: $(-4, -2)$, perp. to $y = -\frac{4}{5}x - 1$

19) through: $(1, 2)$, perp. to $y = -\frac{1}{7}x + 2$

20) through: $(3, 0)$, perp. to $y = \frac{3}{4}x - 2$

Answers to 17-10-16

1) $4x - 3y = -3$
2) $x + y = -2$
3) $7x - y = 5$
4) $x + 2y = 4$
5) $5x + 2y = 4$
6) $x - 4y = -6$
7) $x + 2y = -4$
8) $9x - 5y = -20$
9) $4x + 5y = 25$
10) $x - y = 1$
11) $x - 5y = -25$
12) $6x + 5y = -15$
13) $2x + y = 8$
14) $2x + y = 4$
15) $9x - 5y = 25$
16) $x - y = -3$
17) $9x + 4y = -16$
18) $5x - 4y = -12$
19) $7x - y = 5$
20) $4x + 3y = 12$