14-02-10-T8

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

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

2) through: $(5, 1)$, slope $= -\frac{3}{5}$

3) through: $(-1, -1)$, slope $= 1$

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

5) through: $(1, 3)$, slope $= -2$

6) through: $(-5, 0)$, slope $= -\frac{4}{5}$

7) through: $(-4, 0)$, slope $= -\frac{5}{4}$

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

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

10) through: $(1, 4)$, slope $= 8$

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

11) through: $(1, 0)$, parallel to $y = \frac{2}{3}x + 3$

12) through: $(1, 3)$, parallel to $y = -5x + 3$

13) through: $(2, 1)$, parallel to $y = 0$

14) through: $(-5, 0)$, parallel to $x = 0$

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

16) through: $(0, 4)$, parallel to $y = -5x + 2$

Answers to 14-02-10-T8

1) $5x - 2y = 4$
2) $3x + 5y = 20$
3) $x - y = 0$
4) $7x + 2y = 8$
5) $2x + y = 5$
6) $4x + 5y = -20$
7) $5x + 4y = -20$
8) $3x - 5y = 10$
9) $2x + 3y = -9$
10) $8x - y = 4$
11) $2x - 3y = 2$
12) $5x + y = 8$
13) $y = 1$
14) $x = -5$
15) $x + 3y = -14$
16) $5x + y = 4$