Elementary Algebra Skill

Writing Equations of Lines Given Certain Properties

Write the standard form of the equation of each line.

1) Slope = 2, y-intercept = 3

2) Slope = 1, y-intercept = 5

3) through: $(-1, -3)$, slope = 4

4) through: $(-5, 5)$, slope $= -\dfrac{2}{5}$

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

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

7) through: $(4, 3)$, parallel to $y = \dfrac{1}{2}x + 4$

8) through: $(-4, 4)$, parallel to $8x + 5y = -5$

9) through: $(4, 0)$, perp. to $y = 2x - 2$

10) through: $(-1, -1)$, perp. to $x + 6y = 0$

Answers to Writing Equations of Lines Given Certain Properties

1) $2x - y = -3$
2) $x - y = -5$
3) $4x - y = -1$
4) $2x + 5y = 15$
5) $7x + 5y = 1$
6) $5x - y = 10$
7) $x - 2y = -2$
8) $8x + 5y = -12$
9) $x + 2y = 4$
10) $6x - y = -5$