

Intermediate Algebra Skill
Writing Equations of a Line

Write the Standard form of an equation, given the following properties:

1) Slope= -1; y-intercept= 1

2) Slope = $\frac{8}{5}$; y-intercept= -5

3) Slope= -7; y-intercept= 3

4) Slope= $-\frac{1}{4}$; y-intercept= -5

5) Through (3,-4); slope= $-\frac{2}{3}$

6) Through (-4,4); slope= $-\frac{4}{5}$

7) Through (-5,-3); slope= $\frac{5}{9}$

8) Through (-3,5); slope= $-\frac{4}{3}$

9) Through (2,2) and (-1,-2)

10) Through (4,-5) and (-2,-3)

11) Through (0,2) and (4,0)

12) Through (0,3) and (-5,-2)

13) Through (-2,-2) and parallel to $y = \frac{7}{2}x - 5$

14) Through (2,3) and parallel to $y = 3x - 2$

15) Through (4,-3) and perpendicular to $y = \frac{1}{2}x - 2$

16) Through (2,5) and perpendicular to $y = -\frac{1}{4}x - 2$

Answers to Writing Equations of a Line

1) $x + y = 1$

2) $8x - 5y = 25$

3) $7x + y = 3$

4) $x + 4y = -20$

5) $2x + 3y = -6$

6) $4x + 5y = 4$

7) $5x - 9y = 2$

8) $4x + 3y = 3$

9) $4x - 3y = 2$

10) $x + 3y = -11$

11) $x + 2y = 4$

12) $x - y = -3$

13) $7x - 2y = -10$

14) $3x - y = 3$

15) $2x + y = 5$

16) $4x - y = 3$