Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = -1, y-intercept = -5
2) Slope = -1, y-intercept = -1

3) Slope = 3/2, y-intercept = 0
4) Slope = -3/4, y-intercept = -4

5) Slope = -3/5, y-intercept = 2

Find the slope and y-intercept of each line. Write the equation of the line.

6) [Diagram of line with slope and y-intercept labeled]
7) [Diagram of line with slope and y-intercept labeled]
8) [Diagram of line with slope and y-intercept labeled]
9) [Diagram of line with slope and y-intercept labeled]
Graphing Lines in Slope-Intercept Form

Sketch the graph of each line.

1) \( y = \frac{1}{4}x - 1 \)

2) \( y = -x + 2 \)

3) \( y = x + 1 \)

4) \( y = \frac{4}{3}x - 4 \)

5) \( y = -3x - 3 \)

6) \( y = 4 \)
Writing Equations given two points. Find the slope \( m \) and then find the Y intercept \( b \).

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

1) through: \((2, 5)\) and \((0, 1)\)
2) through: \((1, -5)\) and \((5, -1)\)

3) through: \((0, 5)\) and \((-1, 2)\)
4) through: \((3, 2)\) and \((5, 4)\)

5) through: \((-2, 2)\) and \((-1, 3)\)
6) through: \((0, -1)\) and \((1, 3)\)

7) through: \((1, -4)\) and \((0, -1)\)
8) through: \((-4, 4)\) and \((-5, 2)\)

9) through: \((0, 2)\) and \((-4, -2)\)
10) through: \((2, -5)\) and \((0, 1)\)