

$y = m(x) + b$ is the equation of a line with slope = m and intercept = b

1. Write the equation of the line which passes through the given point and has the indicated slope.

a) (4, 6); slope = 5

b) (12, -2); slope = $\frac{1}{2}$

c) (-3, 10); slope = -4

2. Write the equation of the line which passes through the given points.

a) (6, -6) and (-12, 21)

b) (-2, 3) and (4, -27)

c) (8, 6.8) and (6, +5.6)

3. Plot lines (a) and (b) on the axes below. Label the two lines.

(a) $y = 2(x) + 5$

(b) $y = -2(x) + 5$

