

Each given point is on a line whose equation is $y = \frac{3}{4}x + b$. Find each value of b.

1. (8, 1)
2. (-8, 3)
3. (0, -7)
4. (-2, -5)

Write an equation in standard form of the line that has the given slope and passes through the given point.

- (1.1) $m = 2; (-3, 1)$
- (1.2) $m = -2; (3, -1)$
- (1.3) $m = -\frac{4}{5}; (-1, -6)$
- (1.4) $m = \frac{9}{7}; (-14, 3)$
- (1.5) $m = 0; \left(\frac{1}{2}, -4\right)$

Write an equation in standard form of the line passing through the given points.

1. (1, -1), (5, 6)
2. (-1, 2), (4, 7)
3. (3, -1), (6, 7)
4. (-2, 0), (2, -3)
5. (3, 0), (-2, 5)

Write an equation in standard form for each line described.

1. The line that passes through the point $(4, 6)$ and $(-1, 3)$ and is parallel to the graph of $3x - y = 4$.
2. The line that is parallel to the graph of $x - 2y + 7 = 0$ and contains the point $(-4, 0)$
3. The line that passes through the point $(-4, -5)$ and has the same y-intercept as the graph of $x + 3y + 9 = 0$.
4. The line that contains the points $(7, 1)$, $(p, 0)$, and $(0, p)$ for $p \neq 0$.