

Practice Linear Equations

- 1) Write the equation of the line passing through $(-3, 4)$ and $(2, 5)$.

- 2) Write the equation from # 1 in slope-intercept form. State the slope and the y-intercept.

- 3) Write the equation of the line passing through $(5, 2)$ and parallel to # 1.

- 4) Write the equation of the line passing through $(5, 2)$ and perpendicular to # 1.

Determine if the lines are parallel, perpendicular, or neither.

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| 5) $2x - 3y = 24$
$3x + 2y = 12$ | 6) $y + 3 = \frac{3}{4}x - 1$
$y = \frac{3}{4}x - 5$ | 7) $3x - y = 15$
$3x + y = 24$ |
|-------------------------------------|---|-----------------------------------|

- 8) Write the equation of a horizontal line passing through $(5, -3)$.
- 9) Write the equation of a vertical line passing through $(5, -3)$.

- 8) Graph the following equation: $y = \frac{3}{4}x - 5$

m = _____

b = _____

