

Example 4 Parallel & PerpendicularA] Parallel to $y=2x+1$; $(-1,3)$

Slope of given line:

Slope of parallel line:

Use point-slope form:

B] Perpendicular to $y=2x+1$; $(-1,3)$

Slope of given line:

Slope of perpendicular line:

Use point-slope form:

*Writing
Linear
Equations*

Slope-intercept form:

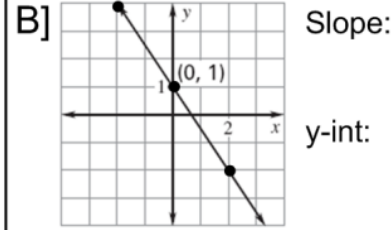
Point-slope form:

Standard form:

Example 3 Given two points on the lineB] $(2, -3)$ and $(3, 1)$
Slope:
Use point-slope form: $y - y_1 = m(x - x_1)$ A] $(3, 1)$ and $(2, -3)$
Slope:
Use point-slope form: $y - y_1 = m(x - x_1)$ **Example 1** Given the slope and y-interceptA] $m = -4$ and $b = -2$

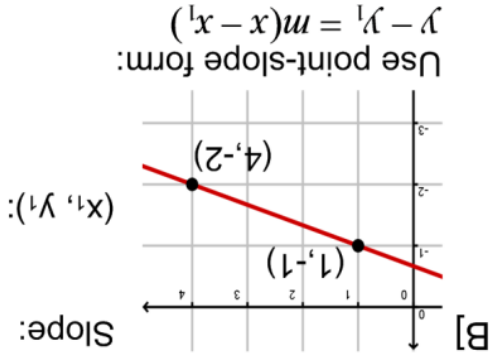
Write in slope-intercept form:

Write in standard form:



Write in slope-intercept form:

Write in standard form:

Example 2 Given the slope and a pointA] $m = 2$ and $(2, 1)$
Use point-slope form: $y - y_1 = m(x - x_1)$  (x_1, y_1) $(4, -2)$ $(1, -1)$