

Slope-Intercept Form for Lines

Name: _____

1. Convert the following equations from **standard** form to **slope-intercept** form.
What is their slope and y -intercept?

(A) $4x - 3y = 9$

slope-intercept form:

slope =

y -intercept =

(B) $2x + 5y = 1$

slope-intercept form:

slope =

y -intercept =

2. For the equations below, split the slope into Δx and Δy .
Then use this to complete the given table with three solutions.

(A) $y = -\frac{3}{4}x + 2$

$m =$

$\Delta x =$

$\Delta y =$

(B) $y = 2x - 4$

$m =$

$\Delta x =$

$\Delta y =$

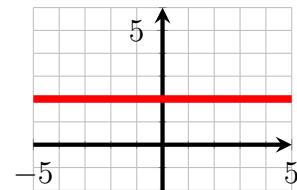
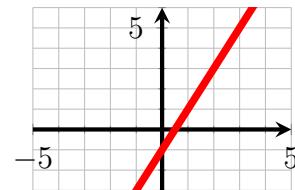
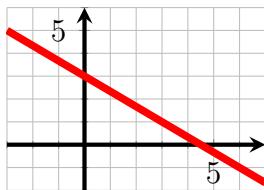
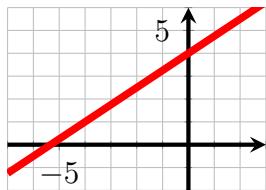
(C) $y = -x + 3$

$m =$

$\Delta x =$

$\Delta y =$

3. For the graphs below, write the slope-intercept form of their equation.



4. For each part below, write a line **parallel** to the given equation, with y -intercept $(0, 1)$.

(A) $y = \frac{2}{3}x - 4$

(B) $3x - 4y = 1$

(C) $y = 4$

5. For each part below, write a line **perpendicular** to the given equation, with y -intercept $(0, 1)$.

(A) $y = \frac{2}{3}x - 4$

(B) $3x - 4y = 1$

(C) $y = 2x - 4$