

4.6

Writing Equations in Slope Intercept Form

Slope-Intercept Form

What is the equation of line in slope-intercept form?

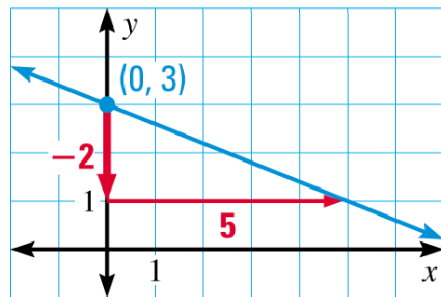


Example

- a) Write an equation of the line with a slope of -2 and a y-intercept of 5.

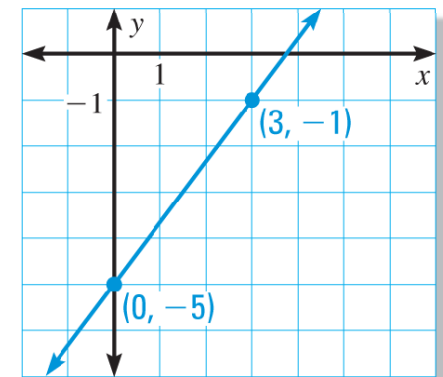
Example

- b) Write an equation of the line shown.



Example

- c) Write an equation of the line shown.

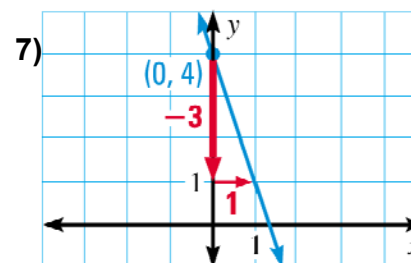
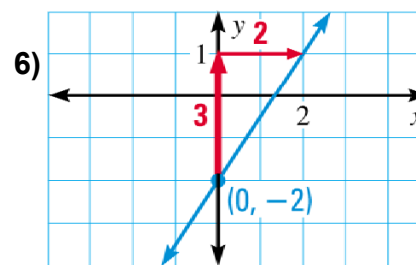


Practice

- 5) Write an equation of the line with a slope of 8 and a y-intercept of -7 .

Practice

Write an equation of the line shown.



Writing an Equation of Line from Two Points

- Step 1) Find the slope between the two points
- Step 2) Plug the slope into slope-intercept form
- Step 3) Find the y-int. using one of the two points

Example

- a) Write an equation of the line that passes through the points $(2, -1)$, $(0, 6)$.

Writing an Equation of Line from Two Points

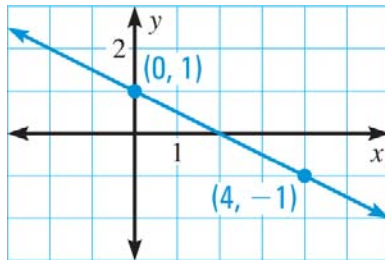
- Step 1) Find the slope between the two points
- Step 2) Plug the slope into slope-intercept form
- Step 3) Find the y-int. using one of the two points

Example

- b) Write an equation of the line that passes through the points $(3, -1)$, $(0, -4)$.

Practice

- 8) Write an equation of the line shown.



Practice

- 9) Write an equation of the line that passes through the points $(0, -5)$, $(4, -9)$.