

14.1 Point-Slope Form - Worksheet 1

1 Determine the point-slope form of the line that passes through the point $(1, 2)$ with slope -2 , then convert that equation to slope-intercept form.

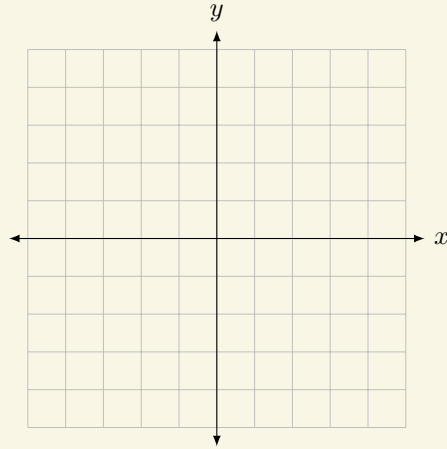
2 Determine the point-slope form of the line that passes through the point $(-4, 1)$ with slope $\frac{5}{2}$, then convert that equation to slope-intercept form.

3 Determine the point-slope form of the line that passes through the point $(2, -3)$ with slope $-\frac{1}{4}$, then convert that equation to slope-intercept form.

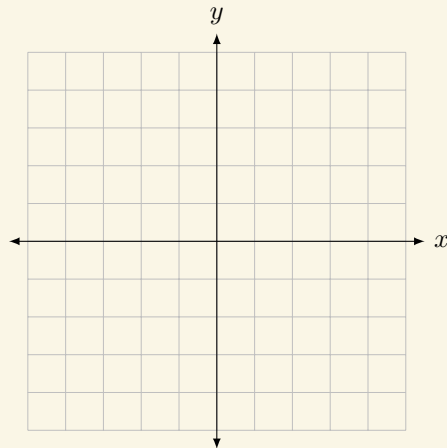
4 Determine the point-slope form of the line that passes through the point $(-3, -2)$ with slope $\frac{5}{3}$, then convert that equation to slope-intercept form.

14.2 Point-Slope Form - Worksheet 2

- 1 Determine the equation of the line that passes through the point $(-1, 3)$ with slope $-\frac{2}{3}$, then graph it.



- 2 Identify the point and slope used to create the equation $y - 2 = \frac{3}{2}(x - 4)$, then graph the line.



14.3 Point-Slope Form - Worksheet 3

1 Find two point-slope equations for the line that passes through the points $(-2, 1)$ and $(5, 5)$.

How do you find the slope of a line that passes through two given points?

2 Find two point-slope equations for the line that passes through the points $(-3, 4)$ and $(4, -3)$.

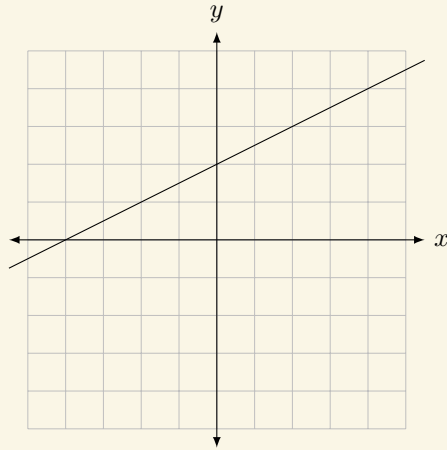
3 Find two point-slope equations for the line that passes through the points $(2, -3)$ and $(-1, 4)$.

4 Find a point-slope equation for the line that passes through the points $(-2, -1)$ and $(3, -1)$.

14.4 Point-Slope Form - Worksheet 4

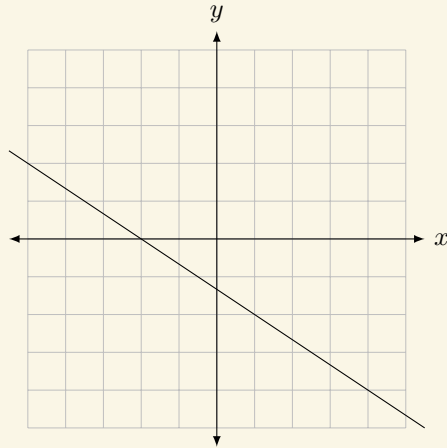
1

Find three different point-slope forms for the given line.



2

Find three different point-slope forms for the given line.



14.5 Point-Slope Form - Worksheet 5

1 Find a point-slope form of the line that passes through the point $(0, b)$ with slope m .

2 Find a point-slope form of the line that passes through the point $(a, 0)$ with slope m .

3 Two lines are parallel if they have the same slope. Find the point-slope form of the line that passes through the point $(2, -1)$ that is parallel to the line $y = 2x - 3$.

4 Two lines are parallel if they have the same slope. Find the point-slope form of the line that passes through the point $(-1, -3)$ that is parallel to the line $y - 2 = \frac{4}{3}(x + 1)$.