13.7: Writing Equations in Point-Slope Form

$y-y\_{1}=m(x-x\_{1})$

\*The line passes through the point ($x\_{1}, y\_{1})$, and the slope of the line is *m*

Use the point-slope form to write an equation of the line with the given slope that passes through the given point.

 1.  2. 

  

Write in point-slope form an equation of the line that passes through
the given point and has the given slope.

 3.  4. 

 5.  6. 

Write in slope-intercept form an equation of the line that passes through
the given points.

 7.  8. 

 9.  10. 

 11. After a laptop is purchased, its value decreases by $150 each year.
After 2 years, the laptop is worth $600.

 a. Write an equation that represents the value *V* (in dollars) of the
laptop *x* years after it is purchased.

 b. What was the original value of the laptop?

 c. What is the value of the laptop 5 years after it is purchased?