



## Quiz 1.2 – Linear Functions

1. (1 pt) [alfredLibrary/AUCI/chapter1/lesson2/quiz/question3.pg](#)

Write an equation for the line through the point  $(4, 4)$  with slope 7 in point-slope form  $y - y_0 = m(x - x_0)$ .

$y - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. (1 pt) [alfredLibrary/AUCI/chapter1/lesson2/quiz/question4.pg](#)

Suppose the points  $(5, 10)$  and  $(8, 3)$  lie on the graph of a function  $f$ .

(a) Write an equation for the secant line through the points  $(5, 10)$  and  $(8, 3)$  in point-slope form  $y - y_0 = m(x - x_0)$ .

$y = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

(b) The slope of the secant line between  $(5, 10)$  and  $(8, 3)$  is

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(c) The average rate of change of  $f$  between  $(5, 10)$  and  $(8, 3)$  is

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3. (1 pt) [alfredLibrary/AUCI/chapter1/lesson2/quiz/question5.pg](#)

Write the equation for the line  $y - 5 = -3(x - 7)$  in the form  $y = mx + b$ , and enter your answer in this form.

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The slope is \_\_\_\_\_

The y-intercept is \_\_\_\_\_