

Name \_\_\_\_\_  
Algebra

Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
Towne / Hoffman

Quiz 4.4

1) Write the equation of a line with a slope of  $-\frac{2}{3}$  that passes through the point (9,3) in point-slope form.

2) A line passes through the points (-3,-2) and (1, 14).  
a. Find the slope of the line  
b. Write the equation of the line in point-slope form using the slope from part (a) and the point (-3,-2)

c. Using algebra, change the equation from part (b) to show that it is equivalent to  $y = 4x + 10$ .

3) What is the slope and the y-intercept of the line  $y = -4 - 3x$ ?

slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_

4) Name one point on the line  $y = -5 - \frac{3}{4}(x-1)$

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Quiz 4.4

1) Write the equation of a line with a slope of  $-\frac{3}{2}$  that passes through the point (1,7) in point-slope form.

2) A line passes through the points (-3,-2) and (2, 13).  
a. Find the slope of the line  
b. Write the equation of the line in point-slope form using the slope from part (a) and the point (-3,-2)

c. Using algebra, change the equation from part (b) to show that it is equivalent to  $y = 3x + 7$ .

3) What is the slope and the y-intercept of the line  $y = -5 - 7x$ ?

slope = \_\_\_\_\_ y-intercept = \_\_\_\_\_

4) Name one point on the line  $y = -9 - \frac{4}{3}(x-8)$