Algebra 1
Chapter 8 Test A

Name **Key**
Date

Multiple Choice: Legibly write your answer choice on the blank beside each problem.
Each multiple choice question is worth 4 points. Show work where appropriate.

C 1. _____ is the point-slope form of a linear equation.

a). $ax + by = c$ b). $\dfrac{y_2 - y_1}{x_2 - x_1}$ c). $y - y_1 = m(x - x_1)$ d). $y = mx + b$

d 2. The slope-intercept form of a linear equation is _____.

a). $ax + by = c$ b). $\dfrac{y_2 - y_1}{x_2 - x_1}$ c). $y - y_1 = m(x - x_1)$ d). $y = mx + b$

d 3. Slope can be defined as _____

a). rate of change   b). $\dfrac{y_2 - y_1}{x_2 - x_1}$ c). $\dfrac{rise}{run}$ d). a, b and c

b 4. One possible solution to the equation $3x + y = 6$ is:
a). (3,-1)   b). (2,0)   c). (0,5)   d). (5,1)

a 5. The slope of a horizontal line is _____.
a). 0   b). 1   c). -1   d). undefined

c 6. The product of the slopes of perpendicular lines is _____.
a). 0   b). 1   c). -1   d). undefined

c 7. Where is the graph of (-3,0) located in the coordinate plane?
a). Quadrant I   b). Quadrant III   c). on the x-axis   d). on the y-axis

d 8. The range of the function {(-1,1), (0,0), (1,0), (2,6)} is _____.
a). {0,1,2,3,4,5,6}   b). {-1,0,1,2}   c). {(-1,1), (1,1)}   d). {0,1,6}

d 9. Find the slope of the line whose equation is $x + 3 = 0$.
a). 3   b). 0   c). -3   d). undefined

c 10. Find the equation of the line with slope $\dfrac{-4}{3}$ that passes through (12,-3).

a). $y = \dfrac{-4}{3}x - 19$ b). $y = \dfrac{-4}{3}x + 19$ c). $y = \dfrac{-4}{3}x + 13$ d). $y = \dfrac{-4}{3}x - 13$

$$y - ^-3 = \dfrac{-4}{3}(x - 12)$$
$$y + 3 = \dfrac{-4}{3}x + 16$$
$$y = \dfrac{-4}{3}x + 13$$