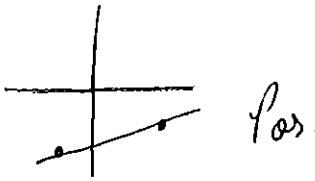


Math 0099  
University of North Georgia  
Spring 2015  
Quiz #5

Name: Key Date: February 13, 2015

1. Find the equation of the line in both *Slope-Intercept* and *Standard* forms given the following two ordered pairs:  $(-3, -7)$  and  $(8, -5)$ . Note: you **MUST** show ALL five steps as done in class for credit!

①



②

$$m = \frac{(-5) - (-7)}{(8) - (-3)}$$

$$= \frac{-5 + 7}{8 + 3} = \frac{2}{11}$$

③

$$-7 = \left[ \frac{2}{11}, -3 \right] + b$$

$$-7 = -\frac{6}{11} + b$$

$$-\frac{7}{1} + \frac{6}{11} = b$$

$$\frac{-77 + 6}{11} = b$$

$$-\frac{71}{11} = b$$

④

$$y = \frac{2}{11}x - \frac{71}{11}$$

$$2x - 11y = 71$$

⑤

$$2(8) - 11(-5) = 71$$

$$16 + 55 = 71$$

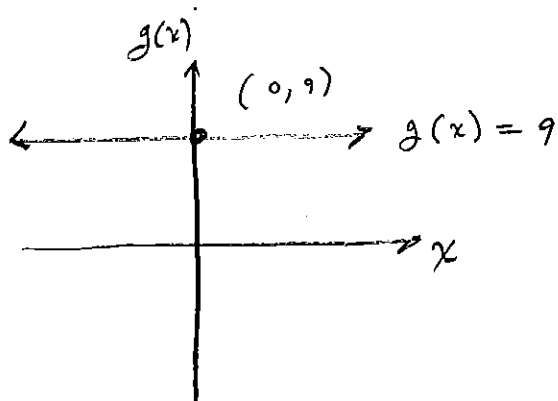
$$71 = 71 \checkmark$$

2. State both the  $x$  and  $y$  Intercepts and the Domain of  $3x - 5y = -4$

$$\begin{array}{l|l} y\text{-int: } (0, \frac{4}{5}) & x\text{-int: } (-\frac{4}{3}, 0) \\ 3(0) - 5y = -4 & 3x - 5(0) = -4 \\ & x = -\frac{4}{3} \\ & y = \frac{4}{5} \end{array}$$

$$\text{Domain: } (-\infty, \infty)$$

3. Graph and state the Domain of  $g(x) = 9$ .



$$\text{Domain: } (-\infty, \infty)$$