

NAME:

[11] Let  $f$  &  $g$ , be functions, and  $x$  &  $y$  be real numbers.

T  $(fg)(x) = (gf)(x)$

Note  $f(x)g(x) = g(x)f(x)$ .

F  $(\frac{f}{g})(x) = (\frac{g}{f})(x)$

Note sometimes  $\frac{f(x)}{g(x)} \neq \frac{g(x)}{f(x)}$ .

F  $x^2 = y$  defines  $x$  as a function of  $y$

Note there are two values of  $x$  which satisfy  $x^2 = y$  when  $y > 0$ .

T  $x - 2$  is a factor of  $\frac{1}{2}x^3 - 2x^2 + x - 2$

Use the factor theorem and the fact that  $\frac{1}{2}(2^3) - 2(2^2) + 2 - 2 = 0$ .

F  $\log(\log(e)) = 0$ .

Note  $\log(\log(e)) \approx -0.36221$ .

T The diameter of a circle varies directly with the radius.

Note  $d = 2r$ .

Right answers will *not* get credit without supporting work. Note "undefined" and "no solution" are possible answers.

1. [2] Define  $\log x = y$ 

$\log x = y$  exactly when  $10^y = x$ . (Alternatively,  $\log x$  is the exponent you need to raise 10 to in order to get  $y$ .)

2. [3] If  $g(x) = |x^2 + 3x - 6|$ . Find  $x$  such that  $g(x) = 2x$ .

$$\begin{array}{l} \text{if } |x^2 + 3x - 6| \geq 0 \\ |x^2 + 3x - 6| = x^2 + 3x - 6 \end{array}$$

$$\begin{array}{l} \text{if } |x^2 + 3x - 6| < 0 \\ |x^2 + 3x - 6| = -(x^2 + 3x - 6) \end{array}$$

So

$$\begin{array}{l} g(x) = 2x \\ x^2 + 3x - 6 = 2x \\ x^2 + x - 6 = 0 \\ (x + 3)(x - 2) = 0 \\ x = -3 \text{ or } x = 2 \end{array} \quad \text{or}$$

$$\begin{array}{l} g(x) = 2x \\ -(x^2 + 3x - 6) = 2x \\ x^2 + 3x - 6 = -2x \\ x^2 + 5x - 6 = 0 \\ (x + 6)(x - 1) = 0 \\ x = -6 \text{ or } x = 1 \end{array}$$

Checking:

$$\begin{array}{l} \text{if } x = -3 \\ g(-3) \stackrel{?}{=} 2(-3) \\ |(-3)^2 + 3(-3) - 6| \stackrel{?}{=} -6 \\ |-6| \stackrel{?}{=} -6 \\ 6 \neq -6 \end{array}$$

$$\begin{array}{l} \text{if } x = 2 \\ g(2) \stackrel{?}{=} 2(2) \\ |(2)^2 + 3(2) - 6| \stackrel{?}{=} 4 \\ |4| \stackrel{?}{=} 4 \\ 4 = 4 \end{array}$$

$$\begin{array}{l} \text{if } x = -6 \\ g(-6) \stackrel{?}{=} 2(-6) \\ |(-6)^2 + 3(-6) - 6| \stackrel{?}{=} -12 \\ |12| \stackrel{?}{=} -12 \\ 12 \neq -12 \end{array}$$

$$\begin{array}{l} \text{if } x = 1 \\ g(1) \stackrel{?}{=} 2(1) \\ |(1)^2 + 3(1) - 6| \stackrel{?}{=} 2 \\ |-2| \stackrel{?}{=} 2 \\ 2 = 2 \end{array}$$

# Math 111 College Algebra Final Practice Problems

**Christian G. Meyer**



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