

Functions: Lesson 3
Function Notation: Worksheet 1

Name: Answer Key

MATH 4 ALL

$$f(x) = -5x - 2 \quad f(0) = ?$$

$$\begin{aligned} & -5(0) - 2 \\ & 0 - 2 = \boxed{-2} \end{aligned}$$

$$g(x) = x + 4 \quad g(-7) = ?$$

$$(-7) + 4 = \boxed{-3}$$

$$h(x) = 10 + 3x \quad h(-2) = ?$$

$$\begin{aligned} & 10 + 3(-2) \\ & 10 - 6 = \boxed{4} \end{aligned}$$

$$F(x) = 3 \cdot (x + 7) \quad F(-2) = ?$$

$$\begin{aligned} & 3 \cdot ((-2) + 7) \\ & 3 \cdot (5) = \boxed{15} \end{aligned}$$

$$G(x) = x^2 + 6 \quad G(-3) = ?$$

$$\begin{aligned} & (-3)^2 + 6 \\ & 9 + 6 = \boxed{15} \end{aligned}$$

$$H(x) = -2x^2 + x - 3 \quad H(-1) = ?$$

$$\begin{aligned} & -2(-1)^2 + (-1) - 3 \\ & -2 \cdot 1 - 1 - 3 = -2 - 1 - 3 = \boxed{-6} \end{aligned}$$

$$C(x) = -x^2 - 2x + 5 \quad C(2) = ?$$

$$\begin{aligned} & -(2)^2 - 2(2) + 5 \\ & -4 - 4 + 5 = \boxed{-3} \end{aligned}$$

$$D(x) = 3|-x + 8| \quad D(5) = ?$$

$$\begin{aligned} & 3|-(5) + 8| \\ & 3 \cdot |3| = 3 \cdot 3 = \boxed{9} \end{aligned}$$

$$E(x) = -2|x - 1| + 7 \quad E(3) = ?$$

$$\begin{aligned} & -2|(3) - 1| + 7 \\ & -2|2| + 7 \\ & -2 \cdot 2 + 7 = -4 + 7 = \boxed{3} \end{aligned}$$

$$B(x) = x^3 + x^2 \quad B(-2) = ?$$

$$\begin{aligned} & (-2)^3 + (-2)^2 \\ & -8 + 4 = \boxed{-4} \end{aligned}$$

$$N(x) = |-x - 6| - 3 \quad N(4) = ?$$

$$\begin{aligned} & |-(4) - 6| - 3 \\ & |-4 - 6| - 3 \\ & |-10| - 3 = 10 - 3 = \boxed{7} \end{aligned}$$

$$M(x) = -2x^3 - x^2 + 1 \quad M(-1) = ?$$

$$\begin{aligned} & -2(-1)^3 - (-1)^2 + 1 \\ & -2(-1) - 1 + 1 \\ & 2 - 1 + 1 = \boxed{2} \end{aligned}$$