



Name: _____
Date: _____

Math 9

Grade: _____

Quadratic Function

Answer the following questions.

Consider the given functions $g(x)=3x+1$ and $f(x)=x^2-2x-3$.

1. What kind of function is $g(x)$? $f(x)$?

$g(x) = 3x + 1$ _____ $f(x) = x^2 - 2x - 3$ _____

2. Complete the following table of values using the indicated function.

$$g(x) = 3x + 1$$

x	-3	-2	-1	0	1	2	3
y							

$$f(x) = x^2 - 2x - 3$$

x	-3	-2	-1	0	1	2	3
y							

Complete the solutions:

When $x = (-3)$
 $y = 3(-3) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (-2)$
 $y = 3(-2) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (-1)$
 $y = 3(-1) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (0)$
 $y = 3(0) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (1)$
 $y = 3(1) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (2)$
 $y = 3(2) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (3)$
 $y = 3(3) + 1$
 $y = \underline{\quad} + 1$
 $y = \underline{\quad}$

When $x = (-3)$
 $y = x^2 - 2x - 3$
 $y = (-3)^2 - 2(-3) - 3$
 $y = \underline{\quad}$

When $x = (-2)$
 $y = x^2 - 2x - 3$
 $y = (-2)^2 - 2(-2) - 3$
 $y = \underline{\quad}$

When $x = (-1)$
 $y = x^2 - 2x - 3$
 $y = (-1)^2 - 2(-1) - 3$
 $y = \underline{\quad}$

When $x = (0)$
 $y = x^2 - 2x - 3$
 $y = (0)^2 - 2(0) - 3$
 $y = \underline{\quad}$

When $x = (1)$
 $y = x^2 - 2x - 3$
 $y = (1)^2 - 2(1) - 3$
 $y = \underline{\quad}$

When $x = (2)$
 $y = x^2 - 2x - 3$
 $y = (2)^2 - 2(2) - 3$
 $y = \underline{\quad}$

When $x = (3)$
 $y = x^2 - 2x - 3$
 $y = (3)^2 - 2(3) - 3$
 $y = \underline{\quad}$