Functions Quiz Review   **Name:**

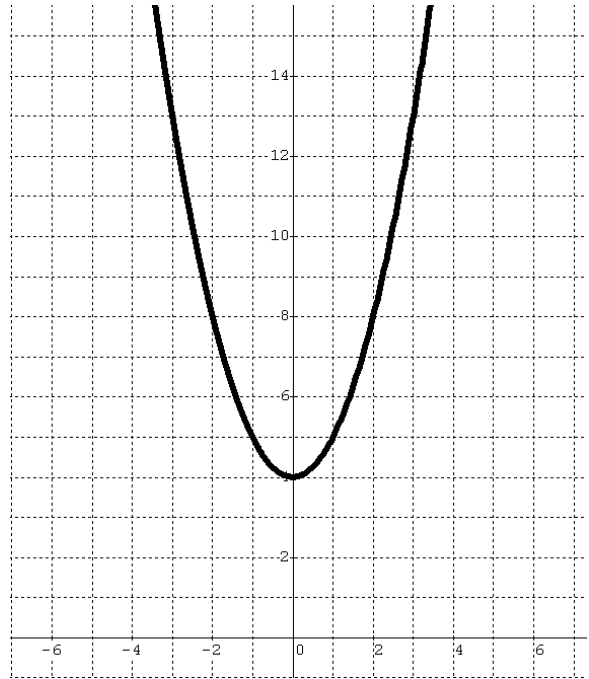1) g(x) = { (3, 4) , (4, 5) , (4, 8) , (6, 7) , (3, 9) }

Function? _____   Domain = _____   Range = _____

2) Given $f(x)$ graphed below, evaluate the following:

   a) $f(0)$

   b) $f(3)$

   c) $f(-2)$

   d) Why is $f(x)$ a function?

   e) Write the domain and range of $f(x)$.

      Domain:

      Range:

3) If $f(x) = 3x - 2$ and $g(x) = \dfrac{1}{2}x^2$, evaluate the following:

a) $f(0)$ b) $f(-1)$

c) $g(4)$ d) $g(-1)$

4) Given f(x) = 3x + 2 and g(x) = x − 5. Find each of the following functions.

1. (f o g)(5)   2. (g(f(x)))