**PRACTICE, PRACTICE, PRACTICE!**

**Domain and Range Practice**

For each of the following graphs determine the Domain and Range. Use BOTH interval notation as well as inequality notation.

**#1** D: **#2** D: **#3** D:

 R: R: R:

  

**------------------------------------------------------------------------------------------------------------------------------------------------------------------------**

**Evaluating Functions Practice**

|  |  |
| --- | --- |
| **x** | **f(x)** |
| -3 | 1 |
| -2 | -2 |
| -1 | 2 |
| 0 | -2 |
| 1 | 1 |

**#4** Examine the graphs of f(x) and **#5** Refer to the table below. **#6** Given g(x) = x2 – x, find the value of each

 g(x) below. Use the graph to expression below.

 approximate the values below.

 **a)** g(-1) **b)** x if g(x) = 12

 **a)** Find f(-1). \_\_\_\_\_\_\_\_

**a)** f(0)= \_\_\_\_ **b)** g(4) = \_\_\_\_ **b)** Find x when f(x) = -2.

**c)** Find x when g(x) = 1. x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**------------------------------------------------------------------------------------------------------------------------------------------------------------------------**

**Solving Equations by Factoring Practice**

Use the Zero Product Property and factoring, when necessary, to solve for x.

**#7** (x + 1)(x + 2) = 0 **#8** x2 – 9x + 14 = 0 **#9** 4x2 + 9x + 5 = 0 **#10** 7x2 – 13x – 2 = 0