Name _____ **Period** _____ **Date** _____

Algebra I
Chapter 2 Introduction Notes

Rewrite each function using function notation.

1. Rewrite the function $y = 3x - 8$ using function notation so that the dependent quantity, defined as f, is a function of the independent quantity x.

2. Rewrite the function $y = 3x^2 + 6x - 1$ using function notation so that the dependent quantity, defined as C, is a function of the independent quantity x.

3. Rewrite the function $y = 3^x + 8$ using function notation so that the dependent quantity, defined as P, is a function of the independent quantity x.

4. Rewrite the function $l = |n - 2|$ using function notation so that the dependent quantity, defined as L, is a function of the independent quantity n.

5. Rewrite the function $d = -\frac{1}{2}m + 5$ using function notation so that the dependent quantity, defined as A, is a function of the independent quantity m.

Evaluate each of the following:

1. $2a + 4$ when $a = 5$
2. $3w - 2$ when $w = -8$
3. $f(x) = 4x + 9$ when $x = 2$
4. $f(x) = 2x - 4$ when $x = -1$

Solve each equation.

1. $x - 4 = -9$
2. $\frac{n}{6} = 5$
3. $5c = -15$
4. $6a + 2 = -4$
5. $\frac{r}{4} + 3 = 9$
6. $3(k + 8) = 21$

Substitute and solve for x in each of the following:

1. $f(x) = x - 4$ when $f(x) = 10$

2. $f(x) = 2x + 28$ when $f(x) = 328$

3. $f(x) = 4x - 10$ when $f(x) = 86$

4. $f(x) = x + 4$ when $f(x) = 2x - 8$