Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ November 22, 2017

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CC Algebra

**Function Evaluating & Operations Practice**

1. Find f(-4)



1. Find x when f(x) = 4



1. Find f(2)



1. Find x when f(x) = -2



1. Given *f(x) = 3x – 29*. If f(x) = -14, find x.
2. Given $f\left(x\right)=-\frac{3}{5}x-17$ If f(x) = -2, find x.
3. Given *f(x) = 2x2 + x – 10*, Find f(-4).
4. Given *f(x) = x3 + 4x*, Find f(-2)
5. Given $f\left(x\right)=-11-\frac{1}{6}x$. If *f(x) = -25*, find x.
6. Given $f\left(x\right)=15-\frac{5}{2}x$, Find *f(6)*
7. Given $f\left(x\right)=\left|-20-x^{2}\right|$, find *f(-8)*
8. Given *f(x) = -5x + 9*. If *f(x) = 89*, find x.

1. If *f(x) = -5x + 9*, what is *2f(x)?*
2. If $f\left(x\right)= \frac{1}{2}x^{2}$, what does *f(2) + f(-2)* equal?
3. If *g(x) = 6x3 – 4x2*, what is $\frac{g(x)}{2}$?
4. Given *f(x) = 2x + 2*, what is *3f(x) – 8*
5. Given *f(x) = x2 + 2x + 1* and *g(x) = 5x + 5*, find *h(x) = f(x) – 2g(x)*
6. Given *f(x) = -3x + 6* and $g\left(x\right)=\frac{1}{2}x$, find *h(x) = 4(g(x)) + f(x)*
7. Given *f(x) = 5x* and *g(x) = 20x3 – 10x2 + 15x*, find $h\left(x\right)=\frac{g(x)}{f(x)}$.
8. Given *f(x) = 2x* and *g(x) = x – 4*, find $h\left(x\right)=[f\left(x\right)g\left(x\right)]$.