## Math 9 – Unit 3: Solving Equations

Name: Mr. Hagen Date: October 12, 2017

## Lesson #3: Solving with Brackets

The next layer to solving equations is to have brackets in the equations. With brackets, you first need to expand (using the Distributive Property), simplify, then use the skills from the last two lessons to solve. Here we go!!

a) 2(x-3) = 2  $2 \times 1 - 6 = 2^{+6}$   $3 \times - 6 = -9^{-6}$   $3 \times - 15$   $3 \times - 15$   $2 \times - 5$ c) 2(3p+4) = 14  $6p + 8^{-6} = 19^{-6}$  2(3p+4) = 14  $6p + 8^{-6} = 19^{-6}$  -24 = 4(h+3) -24 = 4(h+3) -24 = 4(h+3)  $-39^{-6} = 9^{-6}$   $-36^{-6} = 9^{-6}$  $-9^{-6} = 1$ 

e) 
$$3(m+1)+10=8-2m$$
  
 $3m+3+10=8-2m$   
 $3m+3+10=8-2m$   
 $3m+13=8-2m$   
 $5m=-5$   
 $5m=-5$   
 $m=-1$   
 $M=-1$   
 $M=2$ 

$$3x = 3$$

$$3x = 1$$