# Unit 2 Corrective Assignment!!!!

What happened? You gotta pass the test….did you ask for help? Do you get it?

NAME: _____

Period: _____

**Directions: Describe the solution set. +2 point each part.**

1) $y + 6 \neq 4$

Verbally:

Graphically:

Set Notation:

2) $f \geq 8$

Verbally:

Graphically:

Set Notation:

**Directions: Solve each equation. Put your solution into set notation. +4 points each**

3) $x + 4 = -x - 2x - 16$

Solution: _____

4) $-7(n + 5) - 5 = -36 - 7n$

Solution: _____

5) $-4.4(3.003h + 2) - 2.6h = -119.4924$

Solution: _____

6) $-30 - 2(7n - 1) = 2(6 + 3n)$

Solution: _____

**Directions: Solve each inequality. Express the solution graphically and in set notation. +4 points each.**

7) $\frac{x}{2} - 3 > -1$

Solution: _____

8) $-6p - 36 \geq -6\,(6 + p)$

Solution: _____

9) $-18 < x + 6 + 7x$

Solution: _____

**Directions: Solve and state any excluded values. +4 points each**

10) $\frac{8}{x+6} = \frac{4}{x+6}$

Solution: _____

Excluded Values: _____

11) $\frac{8}{n+8} = \frac{4}{n+1}$

Solution: _____

Excluded Values: _____

12) $\frac{154}{4x+2} + 7 = 0$

Solution: _____

Excluded Values: _____

**Directions: Solve each equation for the indicated variable. +5 points each.**

13) $2m + bx = c, for\ x.$

14) $A = \frac{1}{2}h\,(b_1 + b_2), for\ h.$

15) $2 = \frac{ab+c}{a}, for\ a.$

**Directions: Simplify each expression. +4 points each.**

| | | |
|---|---|---|
| 16) $2 - 3(4x - 5)$ | 17) $(5x^2 - 9x - 1) - (2x^2 - x + 9)$ | 18) $(x - 5)(x - 4)$ |

19) Mr. Kelly has 10 friends on Facebook. He hopes to add 2 new friends every month until he gets to a whopping 30 friends!

a) Pick variables and define them for this situation. **(Worth +2 points)**

b) Create an equation using your variables to model the situation. **(Worth +2 points)**

c) Solve the equation to find how months it will take till Mr. Kelly has 30 Facebook friends. **(Worth +3 points)**

d) Explain (using complete sentences) how the solution would change if Mr. Kelly started with no friends (like real life)? **(Worth +2 points)**

20) Write an **inequality** that satisfies the given solution set with conditions. **(Worth +2 points eac)**

a) $\{x\ real | x \geq 1\}$ where there is at least one operation.

b) { }

21) Mr. Brust is selling tickets to his MAGIC SHOW! He sells tickets to children for $5 and adults for $10. He's pretty confident he can make $500.

a) Pick variables and define them for this situation. **(Worth +2 points)**

b) Create an equation to model this situation. **(Worth +2 points)**

c) Solve your equation in terms of the variable you designated for the number of adult tickets sold. **(Worth +3 points)**