MAT 0024 Chapter 2 Section 2
Worksheet 2
Solving Equations

Summary: To solve equations, use the addition/multiplication principles to **"Get rid of…"**

1. **P**arentheses by using the distributive property. Combine like terms if no fractions**.**
2. **D**enominators: Multiply each side of equation by common denominator.
   BEFORE NEXT STEP, ALL LIKE TERMS ON EACH SIDE SHOULD BE COMBINED!
   EACH SIDE SHOULD BE NO MORE COMPLICATED THAN: "4X – 8"
3. **S**igns (addition or subtraction) by using the addition principle (add opposites). Get variable terms on one side of the equation and all constant terms on the other side. Goal: Each side of equation is **no more complicated** than "4x = -9."
4. **C**oefficients by dividing by dividing both sides by coefficient. Goal: x = number

Parents, **D**o **S**end **C**ash!

A. "Getting rid of" coefficients (number times variable) by dividing:

1. 3x = 6 **2. -2x = 8** **3. –3.4x = 68**

B. "Getting rid of" signs by adding the opposite:

1. x + 3 = 8 **2. x - 7 = –8** **3. –9.4 = y – 6.12**

4. 5t + 4 = -11 **5. – 5 = 6m + 2** **6. –5y = -2y + 7**

7. 2x + 6 = 7x **8. 3x – 13 = –9 + 2x** **9 . –4m – 3 = 2m + 8**

10. –3x + 4 = 5 – 7x **11. 5m – 4 = m + 12** **12. 6y – 1 = -4y + 9**