Ch 3.3 Solving Equations with variables on both sides

Rules: 1. **Distributive property**
2. **Combine like terms** on the same side of the equal sign.
3. **Move variables to the same side** by adding or subtracting (do the opposite)
4. **Move numbers** (w/out variables) to the same side by adding or subtracting (do the opposite).
5. **Multiply or Divide** to solve for the variable by doing the opposite.
6. Check your answer.

Oct 22-8:40 AM

* If variables cancel out and it is a **true** statement, **all real numbers** will work in the check. If you notice the left side is the same as the right side, it is an ***IDENTITY***.

* If variables cancel out and it is a **false** statement, there is ***NO SOLUTION***.

Sep 15-3:31 PM

Ex1a) $6x + 22 = -3x + 31$

Ex1b) $8 - 3(p - 4) = 2p$

Oct 22-1:01 PM

Ex1c) $2(6 - 4d) = 25 - 9d$

1 **$2(4 - 2r) = -2(r + 5)$**

Oct 22-1:01 PM

Ex2a) $4(x - 5) = 4x - 20$

Ex2b) $4g + 7 = 5g - 1 - g$

Oct 22-1:02 PM

2 **$2(3x + 4) = 6x + 9$**

A solution
B no solution
C 1

Oct 22-1:04 PM

Ex3a) There are 2 gym packages. The first is $50 a year for a membership fee plus $5/visit. The second is $200 for the membership fee and $2/visit. Which is better?

Oct 22-1:09 PM

Ex3b) Games R Us charges $50 a year for a membership fee and $3 for each video you rent. Gaming Rental Inc. charges $8 a video. Which place would you rent from?

Oct 22-1:14 PM