

## 2.2 - 2.4 Operations with Real Numbers

Two ways to think about Adding 2 Signed numbers

1. If signs are the same

Ex:  $4 + 6 = +10$

a. Find the Sum

b. Use the Common Sign

Ex:  $-3 + -5 = -8$

2. If signs are different

a. Subtract the absolute values

b. Use Sign of bigger number

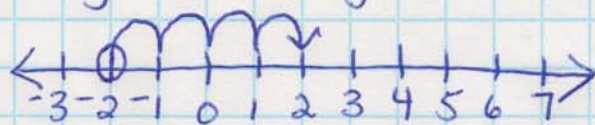
Ex:  $-3 + 5 = |3| - |3| = +2$

Ex:  $6 + (-1) = |6| - |1| = +5$

\* When you see a  
+(-) or a -(+)  
that means subtract.

or  
Number Line Method

1. When adding move right on the number line



Ex:  $-2 + 4 = 2$

### Identity Property of Addition -

Identity means you get the same thing you started with when you add.

$$a + 0 = a$$

Additive Inverse - adding a quantity, which results in 0. ↙ the opposite

$$a + (-a) = 0 \quad \& \quad -a + a = 0$$