## $a(b+c)=a b+a c$

An algebra property which is used to multiply a single term and two or more terms inside a set of parentheses.
"GET RID OF PARENTHESIS!"

## $a(b+c)=a b+a c$

## When two things are next to each other it means MULTIPLICATION!

# $a(b+c)$ <br> $=a(b)+a(c)$ <br> = abtac 

## Simplify the equation:

$$
-2(x+5)-4 x
$$

$$
(-2)(x)+(-2)(5)-4 x
$$

Step 1: Distribute Note: Keep the negative sign with the 2
$-2 x+(-10)-4 x$
Step 2: Simplify
$-6 x-7$
Step 3: Combine
like terms

$$
x-4(x-7)
$$

$$
x-4(x)-(-4)(7)
$$

## Step 1: Distribute

 Note: Keep the negative sign with the 4*Only distribute the 4 because it is touching the parenthesis

$$
x-4 x-(-28)
$$

Note: $-(-x)=+x$

$$
-3 x+28
$$

like terms


1. $-2(x+7)$
2. $x-3(x-4)$
3. $3(2-x)-x$
4. $-6(x+1)+x$
5. $-3(5-x)$
6. $15-x(x-4)$
7. -(4-x)
