Intro to college math: Chapter 1.6
Properties of Real Numbers

1. Apply the distributive property to the following expression and then simplify the result when possible.

$-2(a-16)$

$-2(a-16)$

$-2 \cdot a + (-2) \cdot (-16)$

$-2a + 32$ ← simplify

* take the term outside the ( ) and multiply by each term inside the ( ).

2. Apply the distributive property to the following expression and then simplify the result when possible.

$-6(x+9)$

$-6(x+9)$

$-6 \cdot x + (-6) \cdot 9$ ← simplify

$-6x - 54$

* take the term outside the ( ) and multiply by each term inside the ( ).

3. Apply the distributive property to the following expression and then simplify the result when possible.

$-(n-14)$

$-(n-14)$

$(-1)\cdot n + (-1)\cdot(-14)$ ← simplify

$-1n+14$

Can also be written:

$-n+14$

* take the term outside the ( ) and multiply by each term inside the ( ).

* since there is a (-) sign outside, think of it as a (-1).

4. Apply the distributive property to the following expression and then simplify the result when possible.

$-(a-9)$

$-(a-9)$

$(-1)\cdot a + (-1)\cdot(-9)$ ← simplify

$-1a+9$

-or-

$-a+9$

* take the term outside the ( ) and multiply by each term inside the ( ).