## Section A. 1 Solving Equations

## Steps for Solving Equations!

1. Distribute and combine like terms.

$$
2(x-3)+5=18
$$

$$
4 x-(5-2 x)=3 x+6
$$

2. Move all variables to the left (or right) by adding the negatives or subtracting the positives
$4 x+6=8 x-8$
$x-2=4-3 x$
3. Move the other numbers by doing inverse operations (you guys are great at those)! Start with what is not touching the variable.

$$
2 x-8=10
$$

$$
\frac{x}{4}+5=10
$$

## II there are fractions....

- Get rid of big divides before getting rid of the number on the top of the fraction

$$
\frac{x+3}{5}=8
$$

$$
\frac{2 x-4}{3}-4=7
$$

- To get rid of fractions at the beginning, multiply everything by the denominator(s)!

$$
\frac{x}{4}+3=3+2 x \quad 5+\frac{x}{2}=\frac{1}{2}+\frac{2 x}{3}
$$

