## 6 steps to solving equations:

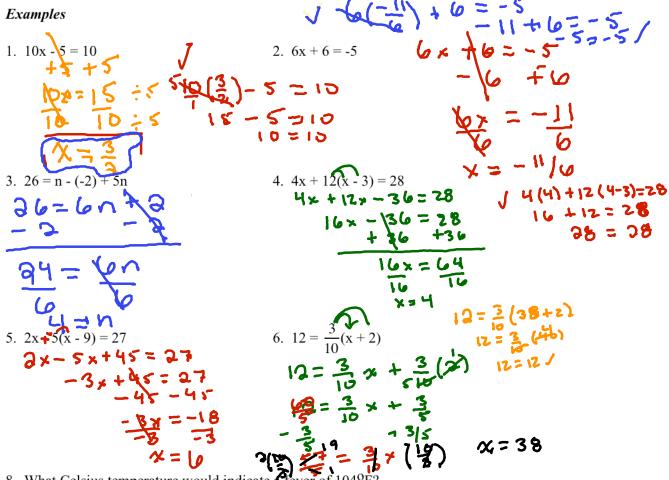
## Section 3.3 Solving Multi-Step Equations

Solving a linear equation may require 2 or more transformations. Here are some guidelines:

- 1. simplify one or both sides of the equation (if needed)
- 2. Use inverse operations to isolate the variable.

## 1. distribute

- 2. Combine like terms
- 3. add/subtract constant
- 4. mult/divide coefficeint
- 5. Simplify fraction (i do not
- want to see any mixed numbers!)
  - 6. check you work



8. What Celsius temperature would indicate a fever of 104°F?

$$C = 40^{\circ}C$$
  
 $\frac{7}{5}C + 32 = 104$   
 $32 - 32$   
 $32 - 32$   
 $32 - 32$   
 $32 - 32$   
 $32 - 32$   
 $32 - 32$ 

9. Air temperature drops about  $3^{\circ}F$  for each 1000 ft increase in altitude. If the air temperature at sea level is 77°F, at what altitude would yo expect the temperature to be  $53^{\circ}F$ ?

5 %

=-77 + 53