## Section 3.4 Solving Equations with Variables on Both Sides

## Examples

1. 
$$6x + 22 = -3k + 31$$
  $(6+72=-3+5)$ 
 $38 = 38$ 

1.  $6x + 22 = -3k + 31$ 
 $38 = 38$ 

1.  $6x + 22 = -3k + 31$ 
 $38 = 38$ 

2.  $64 - 17w = 6w$ 

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6. A gym offers two packages for yearly membership. The first plan costs \$50 to be a member, then each visit to the gym is \$5. The second plan costs \$200 for a membership fee plus \$2 per visit. Which membership is more economical

