

3 - 2

**Solving Equations by Using
Addition and Subtraction**

Goal is to get the variable by itself

"one x"



$$\text{Ex: } x - 48 = 29$$

~~+48~~ +48

$$x = 77$$

$$\text{Ex: } 21 + x = -18$$

~~-21~~ -21

$$x = -39$$



$$\text{Ex: } x - 12 = -27$$

$+12 \quad +12$

$$x = -15$$

$$\text{Ex: } -16 + x = 10$$

$+16 \quad +16$

$$x = 26$$



Ex: $x + (-2) = -7$

$$\begin{array}{r} x + 2 = -7 \\ -2 \quad -2 \end{array}$$

$$x = -9$$



Ex: $x + \frac{3}{4} = -\frac{1}{8}$

~~$-\frac{3}{4}$~~

$x = -\frac{7}{8}$

$-\frac{1}{8} - \frac{3}{4}$

$-\frac{1}{8} - \frac{6}{8} = -\frac{7}{8}$



Homework:

p.132 #16-32 even, 41-45 all

