


2 - 2

**Adding and Subtracting
Rational Numbers**



Ex: $6 + 2 =$

Ex: $-6 + 2 =$



**Always turn them into
addition problems!**

signs are the same

** add the #s and keep the sign

$$\text{Ex: } 3 + 7 = 10$$

$$\text{Ex: } -3 - 7 = -10$$

$-3 + -7$

$$\text{Ex: } -7 - 18 = -25$$

$-7 + -18$

signs are different

** subtract the #s and use the sign of the bigger #

$$\text{Ex: } 12 - 16 = -4$$

$$12 + -16 =$$

$$\text{Ex: } 18 - 10 = 8$$

$$18 + -10$$

$$\text{Ex: } 86 - 100 = -14$$

$$86 + -100$$



Homework:

2 - 2 WS (#1-24 odd, 25-27 all, skip 28)

Let's do #11 together....

$$-\frac{3}{4} + -\frac{3}{5} = -\frac{27}{20}$$

$$\begin{array}{r} 5 \cdot 3 \\ 5 \cdot 4 \end{array} + \begin{array}{r} 3 \cdot 4 \\ 5 \cdot 4 \end{array}$$

←

$$\frac{15}{20} + \frac{12}{20} = \frac{27}{20}$$

$$-\frac{7}{20}$$

$$\frac{3}{4} - \frac{5}{7} = \boxed{\frac{1}{28}}$$

$$\frac{3}{4} + \frac{-5}{7}$$

x7

$$\frac{21}{28} + \frac{-20}{28} \quad \text{x4}$$