2.3b Subtracting Rational #'s

Subtracting Fractions

1. Find a common denominator
2. Multiply denominator and numerator by the same #.
3. Borrow from integer, if needed
4. Subtract numerators (keep denominator)
5. Simplify

Ex. 1 $\frac{5}{7} - \frac{1}{2}$

$\frac{5}{7} \cdot \frac{2}{2} = \frac{10}{14}$

$-\frac{1}{2} \cdot \frac{7}{7} = -\frac{7}{14}$

$\frac{3}{14}$

Ex. 2 $\frac{6}{15} + \left(+\frac{3}{5}\right)$

$\frac{6}{15} \rightarrow \frac{6}{15}$

$+\frac{3}{5} \cdot \frac{3}{3} = +\frac{9}{15}$

$\frac{15}{15}$

1

Ex. 3 $-4\frac{6}{14} + \left(+1\frac{2}{7}\right)$

$4\frac{6}{14} \rightarrow 4\frac{6}{14}$

$-1\frac{2}{7} \cdot \frac{2}{2} = -1\frac{4}{14}$

$-3\frac{2}{14}$

$-3\frac{1}{7}$

Ex. 4 $-5\frac{2}{3} + 2\frac{3}{4}$

$5\frac{2}{3} \cdot \frac{4}{4} = 4\frac{8+12}{12}$

$-2\frac{3}{4} \cdot \frac{3}{3} = -2\frac{9}{12}$

$-2\frac{11}{12}$

Ex. 5 $-\frac{6}{17} + \frac{3}{5}$

$\frac{6}{17} \cdot \frac{5}{5} = \frac{30}{85}$

$-\frac{3}{5} \cdot \frac{17}{17} = \frac{51}{85}$

$\frac{3}{5} \cdot \frac{17}{17} = \frac{51}{85}$

$-\frac{6}{17} \cdot \frac{5}{5} = -\frac{30}{85}$

$\frac{21}{85}$

HW: p. 62 #3-8, 12-16 omit 14