

# 11.1.3 Adding and Subtracting Rational Expressions

I will know how to add and subtract rational expressions

#11-26

a)  $\frac{8}{11} + \left(-\frac{3}{11}\right) = \frac{5}{11}$

b)  $\frac{x}{6} + \frac{2}{6} = \frac{x+2}{6}$

c)  $\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{4}{15} = \frac{9}{15}$

#11-27 Simplify

a)  $\frac{2x}{2x^2+x-21} + \frac{7}{2x^2+x-21} = \frac{2x+7}{(2x+7)(x-3)} = \frac{1}{x-3}$

b)  $\frac{5x}{x^2-2x-3} - \frac{15}{x^2-2x-3} = \frac{5(x-3)}{(x-3)(x+1)} = \frac{5}{x+1}$

c)  $\frac{3x+9}{8x^2-50} - \frac{x+4}{8x^2-50} = \frac{2x+5}{2(2x+5)(2x-5)} = \frac{1}{4x-10}$

d)  $\frac{x^2+5x-2}{3x^2+2x-8} + \frac{2x^2-3x-6}{3x^2+2x-8} = \frac{3x^2+2x-8}{3x^2+2x-8} = 1$

Core #11-26

HW #11-31

Math

$\frac{r-x-s}{p-x}$