

Name _____ Simplifying Rational Expressions 8-22-17 Hour 1 2 3 4 5 6 7

Rational Expression Simplification Simplify each of the following expressions (no negative exponents or complex fractions allowed)

<p>Question 1</p> $\frac{7x-13}{2x-1} + \frac{x+9}{2x-1}$	<p>Question 2</p> $x^2 + \frac{2x}{3x-5}$	<p>Question 3</p> $\frac{x-y}{x^{-1}-y^{-1}}$
<p>Question 4</p> $\frac{1-xy^{-1}}{x^{-1}-y^{-1}}$	<p>Question 5</p> $\frac{2x}{x+3} - \frac{x-3}{x^2+6x+9}$	<p>Question 6</p> $\frac{x+2}{2x-1} - \frac{2x}{x-1}$

Question 7

$$\frac{2x+10}{x-1} - \frac{4}{\frac{x+5}{x^2-1} - \frac{1}{x+1}}$$

Question 8

$$\frac{x+2}{x+5} + \frac{1}{\frac{x-1}{x+5} - \frac{1}{x+1}}$$

Question 9

$$\frac{7x}{x^2-1} - \frac{x}{x^2-1} + \frac{6}{x^2-1}$$

Question 10

$$\frac{3x}{2x-y} - \frac{2x}{2x+y} + \frac{2y^2}{4x^2-y^2}$$

Question 11

$$(x-y)^{-2} - (x+y)^{-2}$$

Question 12

$$\frac{7}{x+7} - \frac{x}{x-7} + \frac{2x}{x^2-49}$$