



Simplifying Complex Fractions

Version 1

Name: _____

Date: _____

Score: _____

Direction: Simplify each complex fraction. Show your solution on the space provided.

$$1) \frac{1 - \frac{1}{x^2}}{1 - \frac{1}{x}} =$$

$$2) \frac{x - \frac{1}{x}}{x + \frac{1}{x}} =$$

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



Simplifying Complex Fractions

Version 1

Name: _____

Date: _____

Score: _____

Direction: Simplify each complex fraction. Show your solution on the space provided.

$$1) \frac{1 - \frac{1}{x^2}}{1 - \frac{1}{x}} = \frac{x+1}{x}$$

$$2) \frac{x - \frac{1}{x}}{x + \frac{1}{x}} = \frac{x^2 - 1}{x^2 + 1}$$

$$3) \frac{\frac{2}{5x} - \frac{3}{15x}}{\frac{1}{5x} + \frac{1}{15x}} = \frac{3}{4}$$