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