Simplifying Complex Fractions

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

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

2) \( \frac{1 - \frac{1}{x}}{y - x} = \)

3) \( \frac{x + 1}{1 - 1} = \)

\( \frac{1}{x} = \)
Simplifying Complex Fractions

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

1) \[ \frac{x + \frac{x}{2}}{x - \frac{x^2}{2}} = \frac{3}{2 - x} \]

2) \[ \frac{\frac{1}{x} - \frac{1}{y}}{y - x} = \frac{1}{xy} \]

3) \[ \frac{\frac{1}{x} + 1}{\frac{1}{x} - 1} = \frac{x + 1}{1 - x} \]