

Correct. A common denominator for all the terms is $6x^2$. Multiply the numerator and denominator by this:

$$\frac{1 - \frac{5}{6x}}{\frac{1}{x} - \frac{5}{6x^2}} \cdot \frac{6x^2}{6x^2} = \frac{6x^2 - 5x}{6x - 5} = \frac{x(6x - 5)}{(6x - 5)} = x$$