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

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

Distribute the $6x^2$ and simplify. Factor, identifying common factors, and simplify further. The correct answer is x.