

Incorrect. Because $x^2 - 4 = (x + 2)(x - 2)$, you should multiply both sides of the equation by $(x + 2)(x - 2)$ to clear the denominators:

$$\frac{6x(x^2 - 4)}{x^2 - 4} = \frac{5(x + 2)(x - 2)}{x - 2} - \frac{1(x + 2)(x - 2)}{x + 2}$$

Simplify to get a linear equation. Combine like terms and solve for x .