Incorrect. Because  $x^2 - 1 = (x + 1)(x - 1)$ , you should multiply both sides of the equation by (x + 1)(x - 1) to clear the denominators:

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

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