

It appears that you used the first two terms as the first factor and the last two terms as the second factor. Using FOIL:

$$(4x^2 - 4x)(3x - 6) = 12x^3 - 24x^2 - 12x^2 + 24x = \\ 12x^3 - 36x^2 + 24x$$

This product does not equal the given expression. The correct answer is: Cannot be factored.