

Can you factor this problem?

Using difference of perfect squares on the first two terms

AND ALSO SEPERATELY BY

Expanding and then factoring.

AND GET THE SAME FACTORS?

$$\overbrace{(4x-2)^2 - (2x+2)^2}^{a^2 - b^2} - 12x(x-2)$$

Difference of Perfect Squares

wait on this

$$(4x-2-(2x+2))(4x-2+2x+2) - 12x(x-2)$$

$$\underbrace{(2x-4)}_{\text{Factor out } a \ 2} \underbrace{(6x)}_{\text{bring in front}} - 12x(x-2)$$

$$2 \cdot 6x(x-2) - 12x(x-2)$$

$$12x(x-2) - 12x(x-2)$$

$$12x(x-2) [1 - 1]$$

$$12x(x-2) [0]$$

$$= 0$$