

Correct. You recognized that  $\frac{4x^2 - 144}{2x^2 - 24x + 72} = \frac{4(x^2 - 36)}{2(x^2 - 12x + 36)} = \frac{4(x + 6)(x - 6)}{2(x - 6)(x - 6)}$ . Pulling out factors of 1 leaves you with the simplified expression  $\frac{2(x + 6)}{(x - 6)}$ .