Answer 5

5. For all
$$x > 2$$
, $(2x^2 + 2x - 12) / (x - 2)$ simplifies to

$$B) \times + 3$$

E)
$$2(x + 3)$$

First, note that the numerator can be simplified by factoring out a '2'

$$\frac{2(x^2+x-6)}{(x-2)}$$

Then, factor the quadratic into (x + 3)(x - 2)

$$\frac{2(x+3)(x-2)}{(x-2)}$$

At this point, the (x-2) cancels from the numerator and denominator leaving 2(x+3).