

25 (a) $2x^2 + 3x = 12 - 2x \Rightarrow 2x^2 + 5x - 12 = 0$

(b) $b^2 - 4ac = (5)^2 - 4(2)(-12) = 121 > 0$. There are two solutions.

(c) $2x^2 + 5x - 12 = 0 \Rightarrow (2x - 3)(x + 4) = 0 \Rightarrow x = 1.5$ or -4