

Correct. $x^2 + 1x + 3x + 3 = x(x + 1) + 3(x + 1)$, so

$$(x + 1)(x + 3) = 0$$

$$x + 1 = 0 \text{ or } x + 3 = 0$$

$$x = -1 \text{ or } x = -3$$