If the equations $x^2 + 2x + 3 = 0$ and $ax^2 + bx + c = 0$, a, b, c $\in$ R, have a common root, then a : b : c is : **[JEE-MAIN-2013]**

(1) 1 : 2 : 3 (2) 3 : 2 : 1 (3) 1 : 3 : 2 (4) 3 : 1 : 2

$x^2 + 2x + 3 = 0$

$D < 0$

$\therefore$ $ax^2 + bx + c = 0$ has

both roots common

$\therefore$ a : b : c = 1 : 2 : 3