

12	8	When the polynomial $P(x)$ is divided by $(x + 1)(x - 3)$, the remainder is $2x + 7$. What is the remainder when $P(x)$ is divided by $x - 3$? (A) 1 (B) 7 (C) 9 (D) 13	1
D Let $P(x) = (x + 1)(x - 3).Q(x) + 2x + 7$ $P(3) = (3 + 1)(3 - 3).Q(3) + 2(3) + 7$ $= 13$ \therefore remainder is 13			State Mean: 0.68

* These solutions have been provided by [projectmaths](http://projectmaths.com.au) and are not supplied or endorsed by the Board of Studies