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- 2015 1** What is the remainder when $x^3 - 6x$ is divided by $x + 3$? **1**
(A) -9 (B) 9 (C) $x^2 - 2x$ (D) $x^2 - 3x + 3$

A

$$\text{Let } P(x) = x^3 - 6x$$

$$P(-3) = (-3)^3 - 6(-3)$$

$$= -27 + 18$$

$$= -9$$

State Mean:
0.86

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.