2016   11
d   Evaluate $\int_0^1 (2x + 1)^3 \, dx$.

2

$$\int_0^1 (2x + 1)^3 \, dx = \left[\frac{(2x + 1)^4}{4 \times 2} \right]_0^1$$

$$= \left[\frac{(2x + 1)^4}{8} \right]_0^1$$

$$= \frac{1}{8} \left[(2(1) + 1)^4 - (2(0) + 1)^4 \right]$$

$$= \frac{1}{8} \left[81 - 1 \right]$$

$$= 10$$

State Mean:
1.63

BOSTES: Notes from the Marking Centre

This information is released by BOSTES in late Term 1 2017.