

Math 2215 - Calculus 1

Quiz #15 - 2016.10.19

Solutions

Compute the following integral:

$$\int_{-2}^1 2x^2 - 4x + 1 \, dx$$

$$\begin{aligned} \int_{-2}^1 2x^2 - 4x + 1 \, dx &= \left. \frac{2}{3}x^3 - 2x^2 + x \right|_{-2}^1 \\ &= \left(\frac{2}{3} - 2 + 1 \right) - \left(-\frac{16}{3} - 8 - 2 \right) \\ &= 15 \end{aligned}$$