

Clearly $f(x)$ is a polynomial function, so is continuous on $[-3, 3]$.
And, $f'(x) = 2x$

which is polynomial.

So, $f'(x)$ exists on $[-3, 3]$. That is, $f(x)$ is differential on $(-3, 3)$.

Also,

$$f(-3) = 9 - 4 = 5 \quad \text{and} \quad f(3) = 9 - 4 = 5$$

So,

$$f(-3) = f(3).$$

Thus, $f(x)$ satisfies all three conditions of Rolle's theorem so by the theorem for $c \in (-3, 3)$,

$$f'(c) = 0 \Rightarrow 2c = 0 \Rightarrow c = 0 \in (-3, 3).$$

This means $f(x)$ verifies the Rolle's theorem.

20. Using composite Trapezoidal Rule, compute $\int_0^2 (2x^2 - 1) dx$ with four intervals. Find absolute error of approximation from its actual value.

Solution: Comparing the given integral $\int_0^2 (2x^2 - 1) dx$ with $\int_a^b f(x) dx$ then

$$a = 0, b = 2 \text{ and } f(x) = 2x^2 - 1$$

Also, given that number of intervals (n) = 4.

Therefore, the length of each subinterval is

$$h = \frac{b-a}{n} = \frac{2-0}{4} = 0.5$$

Here

End points of sub-interval (x_n)	$x_0 = 0$	$x_1 = 0.5$	$x_2 = 1$	$x_3 = 1.5$	$x_4 = 2$
value of y_n at x_n , ($y = 2x^2 - 1$)	$y_0 = -1$	$y_1 = -0.5$	$y_2 = 1$	$y_3 = 3.5$	$y_4 = 7$

Here, by the composite Trapezoidal rule,

$$\begin{aligned} T &= \int_0^2 (2x^2 - 1) dx \approx \frac{h}{2} [y_0 + y_4 + 2(y_1 + y_2 + y_3)] \\ &= \frac{0.5}{2} [-1 + 7 + 2(-0.5 + 1 + 3.5)] = 0.25 \times 14 \\ &= 3.5 \end{aligned}$$

And, the actual value is,

$$\begin{aligned} I = \text{Actual value} &= \int_0^2 (2x^2 - 1) dx = \left[\frac{2x^3}{3} - x \right]_0^2 \\ &= \frac{16}{3} - 2 = 3.334 \end{aligned}$$

Now, the absolute error is,

$$\text{Error} = |T - I| = |3.334 - 3.5| = 0.1667.$$

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Sabine Zange



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