9-9.3-4

AI24BTECH11015 - Harshvardhan Patidar

Question:
Find the area of the region enclosed by the curve $y = x^2$, the X axis and the ordinates
$x = -2$ and $x = 1$.

Solution:
The required area of the region bounded between $y = x^2$, the X axis and the ordinates
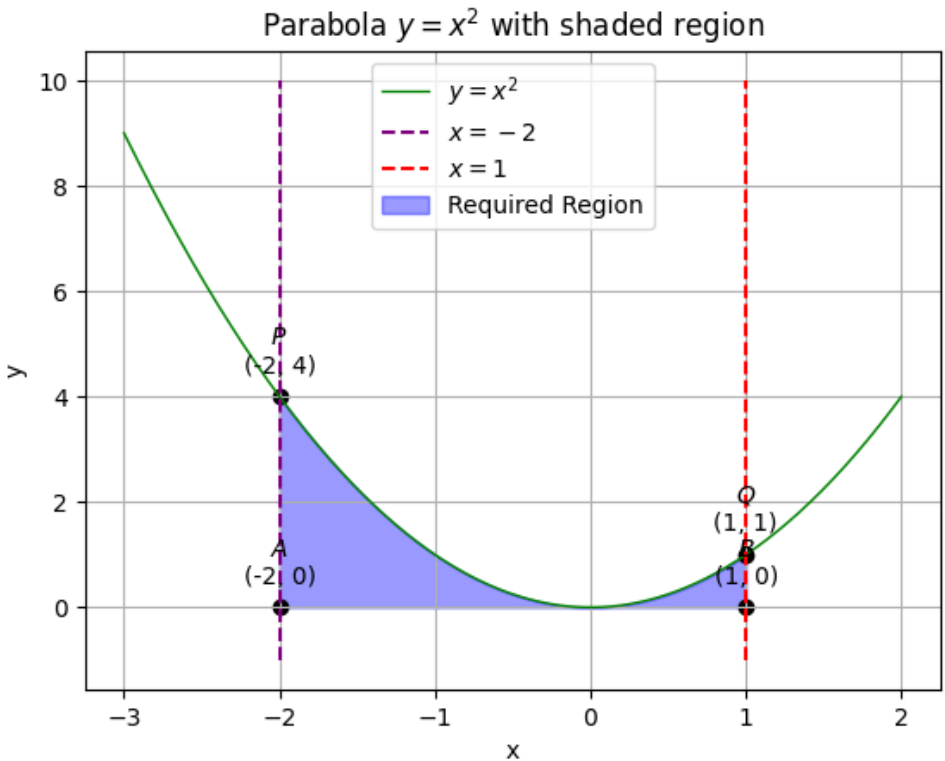$x = -2$ and $x = 1$ is

$$\int_{-2}^{1} x^2 dx = 3 \tag{0.1}$$

Fig. 0.1