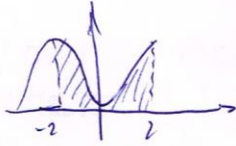


2.64  
76



$$\begin{aligned} S &= \int_{-2}^0 \left(-x^2 + 2x + \frac{x^3}{2}\right) dx + \int_0^2 \left(x^2 - 2x + \frac{x^3}{2}\right) dx = \\ &= \left. -\frac{x^3}{3} + x^2 + \frac{x^4}{8} \right|_{-2}^0 + \left. \frac{x^3}{3} - x^2 + \frac{x^4}{8} \right|_0^2 = \\ &= -\frac{8}{3} + 4 + 2 - \left(-\frac{8}{3} + 4 + 2\right) = 8 \end{aligned}$$