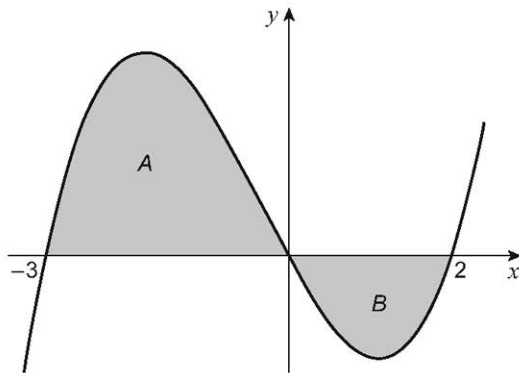


2

The graph of  $y = f(x)$  intersects the  $x$ -axis at  $(-3, 0)$ ,  $(0, 0)$  and  $(2, 0)$  as shown in the diagram below.



The shaded region  $A$  has an area of 189

The shaded region  $B$  has an area of 64

Find the value of  $\int_{-3}^2 f(x) \, dx$

Circle your answer.

[1 mark]

−253

−125

125

253