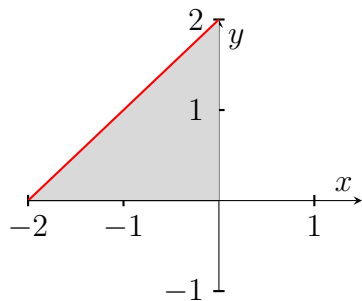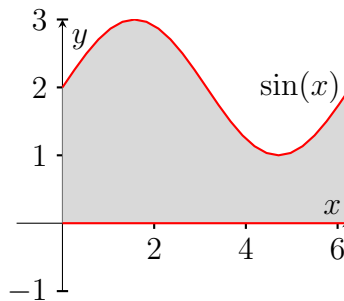# Section 8: Integration

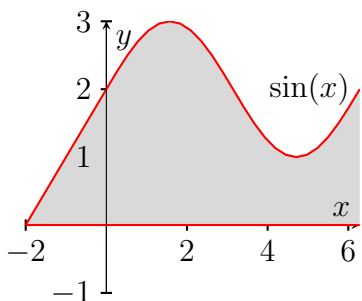Q1) Suppose you are integrating a function $g(x,y) : \mathbb{R}^2 \to \mathbb{R}$ on the following shaded regions. Express the integral with appropriate bounds.
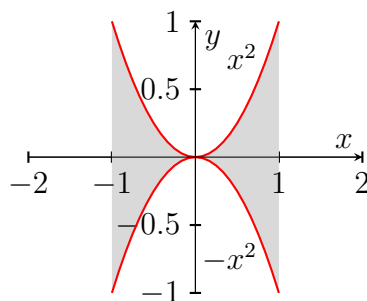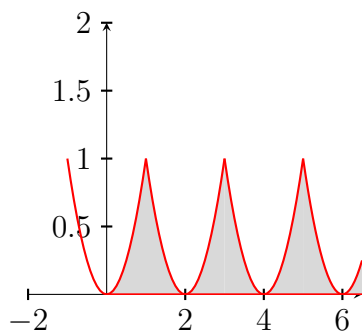

(a)

(b)

(c) *hint: use (a) and (b).*

(d)

(e) *Challenge Problem*

Q2) For parts $(a), (b)$ and (d) in question 1, rewrite the integral by switching the order of integration.