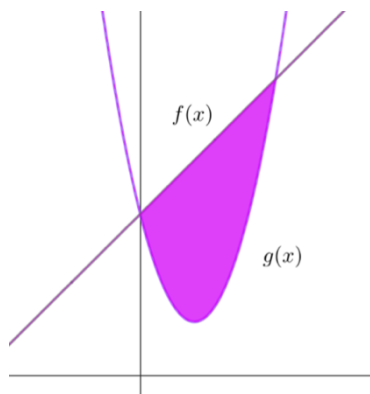


Higher Maths question bank :: Paper 1

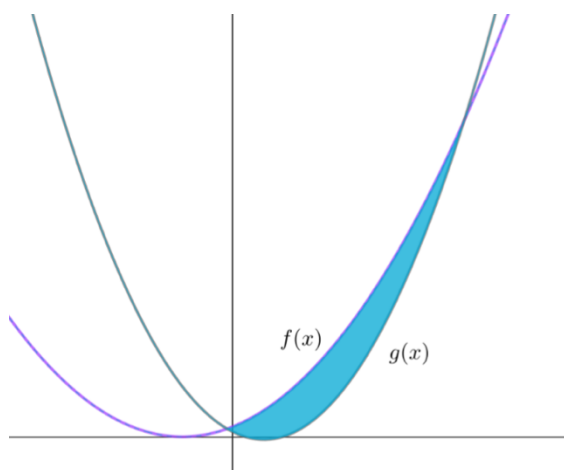
12. Area under a graph

1. A line is described by function $f(x) = x + 6$.
A curve is described by function $g(x) = x^2 - 4x + 6$.



- Find the points of intersection of f and g .
- Express the enclosed area as an integral.
- Evaluate the integral to find the area.

2. The graphs of functions f and g are shown, where
 $f(x) = x^2 + 4x + 4$ and $g(x) = 2x^2 - 1$.



- Find the points of intersection of f and g .
- Express the enclosed area as an integral.
- Evaluate the integral to find the area.