13.5) Areas under curves

Worked example	Your turn
Find the area of the finite region bounded by the curve with equation $y = x^3$, the lines with equation $x = 1$ and $x = 4$ and the x -axis.	Find the area of the finite region bounded by the curve with equation $y = x^4$, the lines with equation $x = 3$ and $x = 5$ and the x -axis. $ \frac{2882}{5} $

Worked example	Your turn
Find the area of the finite region between the curve with equation $y = 6 + x - x^2$ and the x -axis.	Find the area of the finite region between the curve with equation $y = 20 - x - x^2$ and the x -axis.
	$\frac{243}{2}$

Worked example	Your turn
Find the area of the finite region bounded by the curve with equation $y = x^2(x+2)$ and the x -axis	Find the area of the finite region bounded by the curve with equation $y = x^2(3-x)$ and the x -axis
	$\frac{27}{4}$