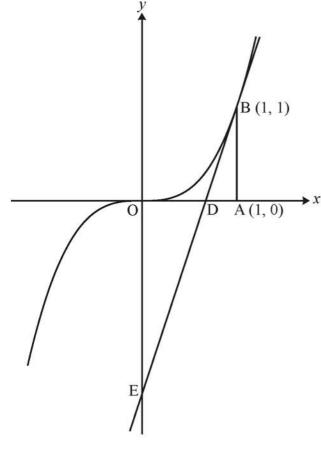
B crosses the x-axis, as shown in Fig. 8. The tangent meets the y-axis at E.

A is the point (1, 0), B is the point (1, 1) and D is the point where the tangent to the curve $y = x^3$ at



In this question you must show detailed reasoning.

8

Fig. 8

(a) Find the area of triangle ODE.

[6]

[4]

(b) Find the area of the region bounded by the curve $y = x^3$, the tangent at B and the y-axis.