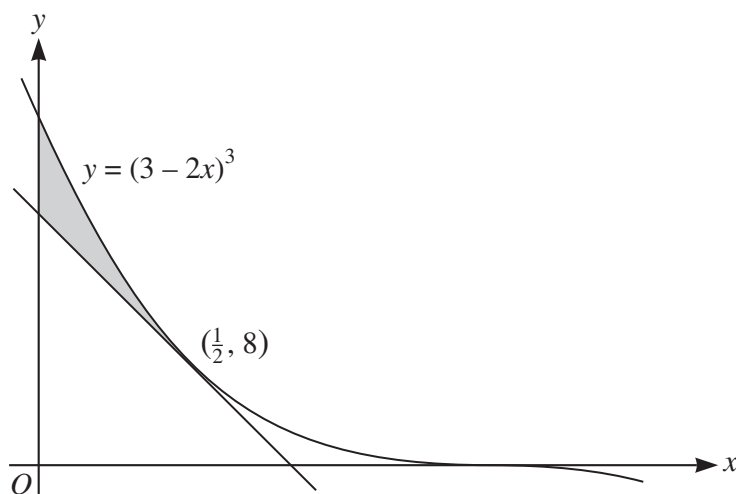**10**

The diagram shows the curve $y = (3 - 2x)^3$ and the tangent to the curve at the point $\left(\frac{1}{2}, 8\right)$.

   (i) Find the equation of this tangent, giving your answer in the form $y = mx + c$.   [5]

   (ii) Find the area of the shaded region.   [6]