

**8** The equation of a curve is  $y = (2x - 3)^3 - 6x$ .

(i) Express  $\frac{dy}{dx}$  and  $\frac{d^2y}{dx^2}$  in terms of  $x$ . [3]

(ii) Find the  $x$ -coordinates of the two stationary points and determine the nature of each stationary point. [5]