15 The equation of a curve is $y = 6x - 2x^{\frac{3}{2}}$.

(a) Show that the coordinates of the turning point on the curve are (4, 8). **[4]**

(b) (i) Determine the value of $\frac{d^2y}{dx^2}$ when $x = 4$. **[2]**

(ii) State the nature of the turning point. **[1]**