

4 A curve has equation

$$y = \frac{x^2}{8} + 4\sqrt{x}$$

4 (a) Find an expression for $\frac{dy}{dx}$

[3 marks]

4 (b) The point P with coordinates $(4, 10)$ lies on the curve.

Find an equation of the tangent to the curve at the point P

[2 marks]

4 (c) Show that the curve has no stationary points.

[2 marks]