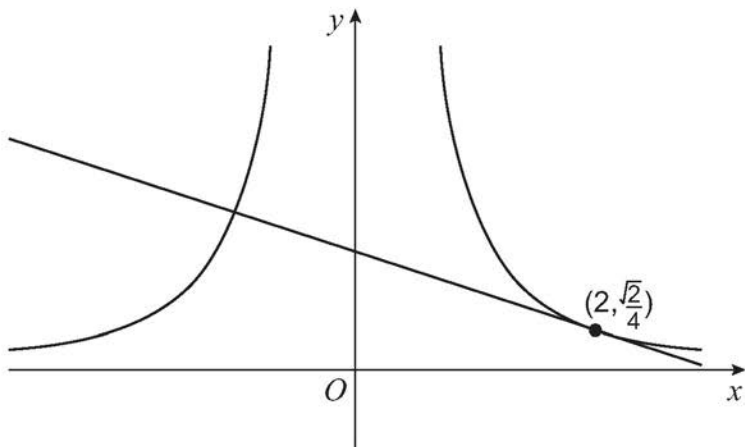**10** Curve C has equation $y = \dfrac{\sqrt{2}}{x^2}$

10 (a) Find an equation of the tangent to C at the point $\left(2, \dfrac{\sqrt{2}}{4}\right)$

[4 marks]

10 (b) Show that the tangent to C at the point $\left(2, \dfrac{\sqrt{2}}{4}\right)$ is also a normal to the curve at a different point.

[5 marks]