6	A curve is such that $\frac{dy}{dx} = \frac{12}{\sqrt{(4x+a)}}$, where a is a constant. The point $P(2, 14)$ lies on the curve is	and
Ü	the normal to the curve at P is $3y + x = 5$.	and
	(i) Show that $a = 8$.	[3]

(ii) Find the equation of the curve.

[4]