A c	urve has equation $y = 2x^{\frac{1}{2}} - 1$ .
(a)	Find the equation of the normal to the curve at the point $A(4, 3)$ , giving your answer in the form $y = mx + c$ .
x-co	oint is moving along the curve $y = 2x^{\frac{1}{2}} - 1$ in such a way that at $A$ the rate of increase of the pordinate is $3 \text{ cm s}^{-1}$ .  Find the rate of increase of the $y$ -coordinate at $A$ .
	A the moving point suddenly changes direction and speed, and moves down the normal in such a that the rate of decrease of the y-coordinate is constant at $5 \mathrm{cm  s^{-1}}$ .
(c)	As the point moves down the normal, find the rate of change of its $x$ -coordinate. [3]