

4(a)	$\left[\frac{dy}{dx} \right] = \frac{3}{2}ax^{\frac{1}{2}} - 12$
	$\left[\frac{dy}{dt} = \frac{dy}{dx} \times \frac{dx}{dt} = \right] \left(\frac{3}{2}a \times 9^{\frac{1}{2}} - 12 \right) \times 5$
	$\left[\frac{dy}{dt} = \right] 5 \left(\frac{9}{2}a - 12 \right)$ or $\frac{45}{2}a - 60$ or $22.5a - 60$ or $\frac{45a - 120}{2}$ or $\frac{15}{2}(3a - 8)$
4(b)	$\frac{3}{2}a \times \left(\frac{1}{4} \right)^{\frac{1}{2}} - 12 = 0$
	$\Rightarrow a = 16$