8	A curve has equation $y = kx^{\frac{1}{2}}$ where k is a constant.	
	The point <i>P</i> on the curve has <i>x</i> -coordinate 4. The normal to the curve at <i>P</i> is parallel to the line $2x+3y=0$ and meets the <i>x</i> -axis at the point	2.
	The line $PQ$ is the radius of a circle centre $P$ .	
	Show that $k = \frac{1}{2}$ .	
	Find the equation of the circle.	[10]