3	(a)	Sketch the curve $y = -\frac{1}{x^2}$.	[1]
	(b)	The curve $y = -\frac{1}{x^2}$ is translated by 2 units in the positive x-direction.	
		State the equation of the curve after it has been translated.	[2]
		The curve $y = -\frac{1}{x^2}$ is stretched parallel to the y-axis with scale factor $\frac{1}{2}$ and, as a result, the point $(\frac{1}{2}, -4)$ on the curve is transformed to the point P .	e

State the coordinates of P.