

- 2 **(a)** The curve $y = \frac{1}{x^3}$ is translated by 4 units in the positive x -direction.

Write down the equation of the curve after it has been translated. **[2]**

- (b)** The curve $y = 5x^2$ is stretched parallel to the y -axis with scale factor 4.

The point on the curve $y = 5x^2$ with x -coordinate 3 is transformed to the point P .

Write down the coordinates of P . **[2]**