

- 4 (a) The curve $y = \sqrt{2x-1}$ is stretched by a scale factor $\frac{1}{4}$ parallel to the x -axis.

Find the equation of the curve after it has been stretched.

[2]

- (b) The curve $y = \sqrt{2x-1}$ is translated by the vector $\begin{pmatrix} -4 \\ 0 \end{pmatrix}$, and as a result, the point on the curve where $x = 5$ is transformed to the point P .

Find the coordinates of P .

[2]