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Interact, engage and perform

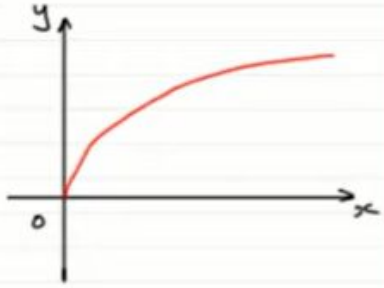
Transformations |Past Paper Question | C1 OCR June 2012 Q5

(i) Sketch the curve $y = \sqrt{x}$.

(ii) Describe the transformation that transforms the curve $y = \sqrt{x}$ to the curve $y = \sqrt{x-4}$.

(iii) The curve $y = \sqrt{x}$ is stretched by a scale factor of 5 parallel to the x-axis. State the equation of the transformed curve.

i)



ii) if $f(x) = \sqrt{x}$

then $f(x-4) = \sqrt{x-4}$

Translation of 4 units parallel to the x-axis $\begin{pmatrix} 4 \\ 0 \end{pmatrix}$

iii) If $f(x) = \sqrt{x}$

$\therefore f(\frac{1}{5}x) = \sqrt{\frac{1}{5}x}$

$\therefore y = \sqrt{\frac{1}{5}x}$

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