STEP/Curve Sketching: Exercises - Overview (18/7/23)

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Q1

Sketch the graph of $\sqrt{x^2 - 2x + 1}$ for $0 \le x \le 2$

Q2

Sketch (i) $y = \sqrt{sinx}$ and (ii) $y = (sinx)^{\frac{1}{n}}$ for large positive integer *n* (for $0 \le x \le \pi$ in both cases).

Q3

Sketch the following:

(i) y = ln (1 - x)(ii) $y = ln(x^2 - 1)$ (iii) $y = ln|x^2 - 1|$

Q4

Sketch $x^n \pm y^n = 1$ for large n

Q5

Sketch $y = \frac{x}{\sqrt{x^2 + p}}$, where p is a positive constant, for $x \ge 0$

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Q6 Sketch $y = \frac{e^x}{x}$