

مذہب Christian

۲۰۴

نواب و خواص آنحضرت

①

$$y = \frac{qc + k}{(qc^2 - y_0 qc^2 + y_1 qc^2 + 1) a \frac{1}{a}}$$

$$= y \frac{qc + k}{(qc^2 + 1)(qc^2 - 1) (qc^2 + 1) a}$$

$$D_f = 113 - \left\{ +1, +\frac{q}{2}, +\frac{1}{2} \right\}$$

$$\frac{q}{2} > \frac{1}{2} \Rightarrow \frac{q}{2} = \frac{1}{2}$$

$$\frac{qc^2 - y_0 qc^2 + y_1 qc^2 + 1}{(qc^2 - 1)(qc^2 + 1)}$$

$$\frac{14 qc^2 + y_1 qc^2}{(qc^2 - 1)(qc^2 + 1)}$$

$$\frac{14 qc^2 - 14}{(qc^2 - 1)(qc^2 + 1)}$$

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$$= \frac{qc + k}{(qc^2 + 1)(qc^2 - 1) (qc^2 + 1) a}$$

$$D_f = 113 - \left\{ -1, +\frac{q}{2}, -\frac{1}{2} \right\}$$

$$\frac{q}{2} < -\frac{1}{2} \Rightarrow \frac{q}{2} = -\frac{1}{2}$$

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$$\frac{y}{x} = \frac{\sin \alpha}{\cos \alpha - 1}$$

$$\frac{\cos \alpha - 1}{\cos \alpha + 1} \neq 0$$



$$\alpha = \arccos \frac{1}{\sqrt{2}}$$

$$D_f = \mathbb{R} - \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\}$$

$$\frac{y}{x} = \frac{\cos \alpha + 1}{\sin \alpha + 1}$$

$$\sin \alpha \neq -\frac{1}{\sqrt{2}}$$



$$D_f = \mathbb{R} - \left\{ \frac{3\pi}{2}, \frac{5\pi}{2} \right\}$$

$$\frac{y}{x} = \frac{\tan \alpha + 1}{\cot \alpha - 1}$$

$$\cot \alpha \neq 1$$

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$$D_f = (-\infty, \sqrt{2}) \cup (\sqrt{2}, +\infty)$$

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$$\lim_{x \rightarrow \infty} \sqrt{\frac{x^p - \epsilon x + p}{x^p - 1}} = \frac{x^p \neq 1}{x^p \neq 1} \left\{ \frac{(x-1)(x-p)}{x^p - 1} \right\} > 0 \quad \frac{+1 \times +p}{+ \quad - \quad +} \quad D_f = (-\infty, +1) \cup [p, +\infty)$$

$$\lim_{x \rightarrow \infty} \sqrt{\frac{x^p - \epsilon x + p}{x^p - 1}} = \frac{x^p \neq 1}{x^p \neq \pm 1} \quad D_f = \mathbb{R} - \{1, p\}$$

$$\text{مثال } y = \log(x^p - px) \quad x^p - px > 0 \quad \frac{x^p - px}{x^p - 1} > 0 \Rightarrow D_f = (-\infty, 0) \cup (p, +\infty)$$

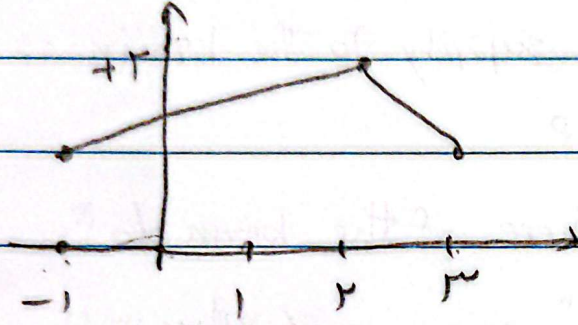
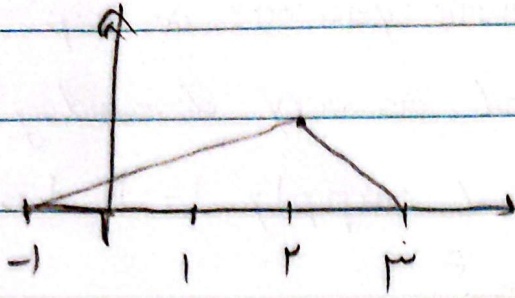
$$\lim_{x \rightarrow \infty} y = \log \frac{x^p - px}{x^p - 1} \quad \frac{x^p - px}{x^p - 1} > 0 \quad |x| - p > 0 \quad |x| \neq p \quad x \neq \pm p \quad D_f = (-\infty, -p) \cup (p, +\infty) - \{1\}$$

$$\lim_{x \rightarrow \infty} y = \log \frac{x^p - px + p - x(x-p)(x-1)}{x^p - 1} \quad \frac{x^p - px + p - x(x-p)(x-1)}{x^p - 1} > 0 \quad \frac{(x-p)(x-1)}{x^p - 1} > 0 \quad D_f = (-\infty, 1) - \{p\}$$

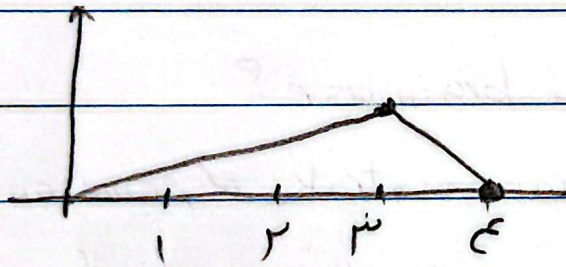
$$> y = \sqrt{x^p - 11x + p} + \log \frac{\sqrt{x^p - 11x + p}}{x} \quad (x-1)(x-p) > 0 \quad \frac{x}{x-1} > 0 \quad D_f = [$$

$$\sqrt{x^p - 11x + p} > 0 \Rightarrow x^p - 11x + p > 0 \quad x^p > 11x - p \quad -4 < x < 4 \quad x \neq 1 \quad D_f = (0, 4] - \{1\}$$

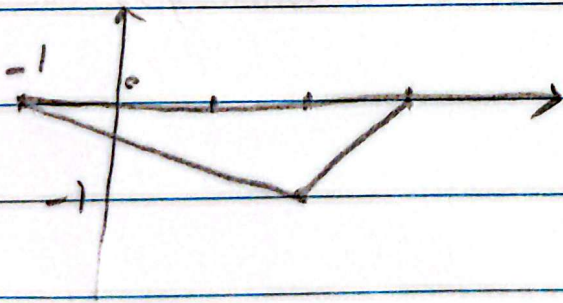
$$x^p > 11x - p \quad x > 0$$



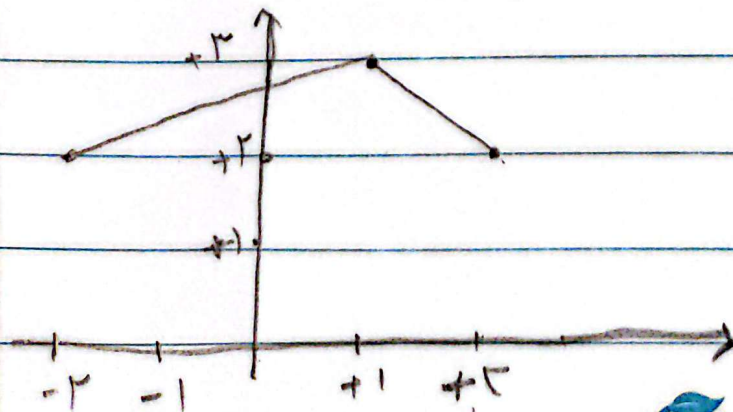
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