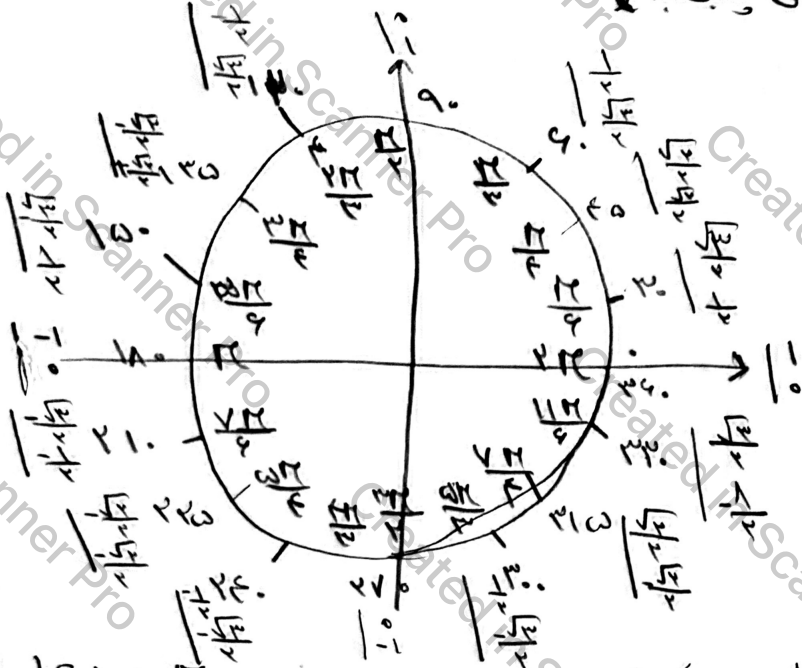


تکلیف

بسمه تعالی

کلاس پنجم



1

2

3

4

$$\sin(150^\circ) = \sin(180^\circ - 30^\circ) = \sin(30^\circ) = \frac{1}{2}$$

$$\cos(150^\circ) = \cos(180^\circ - 30^\circ) = -\cos(30^\circ) = -\frac{\sqrt{3}}{2}$$

$$\tan(150^\circ) = \frac{\sin(150^\circ)}{\cos(150^\circ)} = \frac{1/2}{-\sqrt{3}/2} = -\frac{1}{\sqrt{3}}$$

$$\cos(\sin^{-1} x) + \sin(\cos^{-1} x) = x + x = 2x$$

$$f(x) = \begin{cases} x^2 + 1 & x \geq 0 \\ x^2 + 2 & x < 0 \end{cases}$$

$$f(1) = 1^2 + 1 = 2$$

$$f(x) = \begin{cases} 2x^2 - 1 & x \geq 1 \\ x^2 + 1 & x < 1 \end{cases}$$

$$f(-1) = (-1)^2 + 1 = 2$$

1R-~~98~~, 13

1R-243

$$\begin{array}{c|c|c} & -1 & 1 \\ \hline & + & - & + \end{array}$$

$$x - r \geq 0 \rightarrow x \geq r \quad D = [r, +\infty)$$

$$9 - \psi \chi \gamma, 0 \rightarrow \chi \leq \psi$$

$$4n - 2 \geq 0 \rightarrow n \geq \frac{1}{2}$$

$$D_s\left(\frac{1}{r}, r\right)$$

$$\begin{array}{c} x = y \\ \longrightarrow \end{array}$$

$$1x - 2x = 0 \rightarrow 2x = 1x$$

→

$$b - 4 = 0 \rightarrow b = 4$$

$$\frac{9}{5} \quad \frac{5}{2} \quad \frac{1}{2}$$

$$\frac{(x-3)(x+2)}{(x^2-1)(x^2-9)}$$

$$x \leq 4 \quad x \leq 4$$

$$\begin{array}{r} \text{\tiny{★}} \\ \text{\tiny{★}} \\ \text{\tiny{★}} \\ \text{\tiny{★}} \\ \text{\tiny{★}} \\ \hline + \\ - \\ - \\ - \\ + \\ + \end{array}$$

$$(-\infty, -2) \cup (2, 4) \cup (4, \infty)$$

$$\frac{2x^3 - 4x^2 - 5x + 9}{2x^3 - 2x^2}$$

$$\frac{x-1}{x^2-x-6} = (x-3)^{-1} (x+2)^{-1}$$

$$\frac{-x^p - \omega x}{-x^p + x}$$

$$- \frac{x^2 - 2x}{x^2 + 2x}$$

$$\begin{matrix} (n-3) & (n-2) & (n+1) \\ \downarrow & \downarrow & \downarrow \\ -3 & -2 & 1 \end{matrix}$$

$$\begin{array}{r} -9x+9 \\ -9x+9 \end{array}$$

$$(-\infty, -3) \cup [-2, -1) \cup [1, 2) \cup [3, \infty)$$

$$الف) y = \sqrt{4[x] - 4}$$

$$4[x] \geq 4$$

$$[x] \geq 1$$

$$D = [1, +\infty)$$

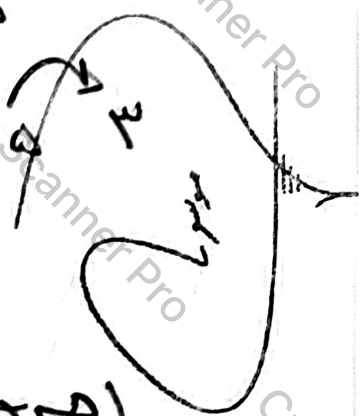
$$ب) y = \sqrt{4[x] \cdot 5}$$

$$4[x] \geq 5$$

$$[x] \geq \frac{5}{4}$$

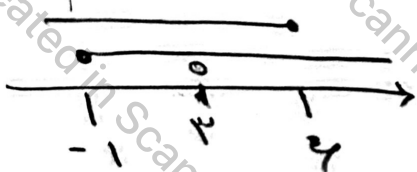
$$[x] \geq 2$$

$$D = [2, +\infty)$$



$$الف) y = \sqrt{\frac{x+1}{|x-3|}} \quad x \leq -1 \quad x=4$$

$$x+1 \geq 0 \rightarrow x \geq -1$$



$$D = [-1, 4] \cup \{4\}$$

$$ب) \sqrt{[x-4]} + \sqrt{2-[x]}$$

$$[x]-4 \geq 0$$

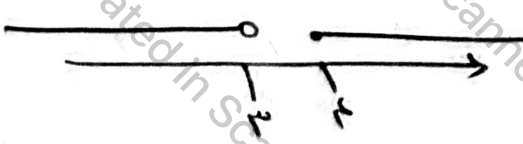
$$2-[x] \geq 0$$

$$[x] \geq 4$$

$$[x] \leq 2$$

$$[4, +\infty)$$

$$(-\infty, 3)$$



اشکات سامی عام
کارخانجات لوازم خانگی پارس