

انت $y = \sqrt{-x}$ $(x, y) \rightarrow (x, -y)$ $(0, 0), (1, -1), (4, -2), (9, -3)$
 ب) $y = -\sqrt{-x}$ $(x, y) \rightarrow (-x, y)$ $(-1, 1), (-4, 2), (-9, 3)$

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1) $y = \sqrt{-x}$ $(x, y) \rightarrow (-x, y)$ $(-1, 0), (-1, 1), (-4, 2), (-9, 3)$

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2) $y = -\sqrt{-x}$ $(0, 0), (-1, -1), (-4, -2), (-9, -3)$

3) $y = -\sqrt{x+2}$ $y = -\sqrt{x}$ $y = -\sqrt{x+2}$ $(0, 2), (1, 2), (1, 1), (2, 0), (2, -1), (3, -1)$

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0 $(1, 0)$
 3. $(\frac{\sqrt{3}}{2}, \frac{1}{2})$
 20 $(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$
 4. $(\frac{1}{2}, \frac{\sqrt{3}}{2})$

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ا) $\cos 120^\circ = \cos 180^\circ - 120^\circ = -\frac{1}{2}$ ب) $\sin 150^\circ = \sin 180^\circ - 150^\circ = \frac{1}{2}$
 $\cos 120^\circ = -\cos 60^\circ$ $\sin 150^\circ = \sin 30^\circ$
 $\cos 120^\circ = -\frac{1}{2}$ $\sin 150^\circ = \frac{1}{2}$

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2) $\cos \frac{5\pi}{6}$ $360^\circ - 300^\circ = 60^\circ$
 $\frac{5\pi}{6} = 300^\circ$ $\cos \frac{5\pi}{6} = \frac{1}{2}$

3) $\sin \frac{11\pi}{4}$ $360^\circ - 330^\circ = 30^\circ$
 $\frac{11\pi}{4} = 330^\circ$ $\sin \frac{11\pi}{4} = -\frac{1}{2}$

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$$4a = a^2 + 3 = a = 1$$

$$y^2 = u^2 \quad (الف)$$

$$y = u$$

$$y = -u$$

$$u = 1$$

$$y = -1$$

$$y^2 + \sqrt{u-1} = 0$$

$$|y| \geq 0, \sqrt{u-1} > 0$$

$$|y| = 0 \Rightarrow y = 0$$

$$(u, y) = (1, 0)$$

$$\sqrt{u-1} = 0 \Rightarrow u-1 = 0 \Rightarrow u = 1$$

$$y-1 = \pm \sqrt{u-1}$$

$$y = 1 \pm \sqrt{u-1}$$

$$y = 1 \pm 1$$

$$y = 2$$

$$y = 0$$

$$y^5 - y = 0$$

$$y(y^4 - 1) = 0$$

$$y(y-1)(y+1)(y^2+1) = 0$$

$$y = -1, 0, 1$$

$$y = 2$$

$$y = 0$$

$$\sin^2 u + \cos^2 \frac{y}{4} = 1 \Rightarrow u = 0$$

$$\cos^2 \frac{y}{4} = 1$$

$$\frac{y}{4} = k\pi$$

$$y = 4k\pi$$

$$y = 0$$

$$y = 2$$

$$y = 0$$

$$2xy - u = 0$$

$$2(y-1) = 0$$

$$u = 0$$

$$y-1 = 0 \Rightarrow y = 1$$

$$y = \frac{1}{2}$$

$$y = \frac{1}{2}$$

$$u = 0$$

$$u^2 + |y-1| = fu$$

$$|y-1| = 2u - u^2$$

$$fu - u^2 \geq 0$$

$$u(f-u) \geq 0$$

$$0 \leq u \leq f$$

$$y-1 = \pm(fu - u^2)$$

$$y = 1 \pm (fu - u^2)$$

$$|y-1| = 2$$

$$y = 0$$

$$y = -2$$

$$y^2 + 3u = 0$$

$$y^2 = -3u$$

$$-3u \geq 0$$

$$0 \leq u$$

$$y = \pm \sqrt{-3u}$$

$$y^2 = 1$$

$$y = -1$$

$$y = 1$$

$$y = 1$$

$$y^3 = \sqrt{u} \quad u \geq 0$$

$$y = \sqrt{u}$$

$$y = \frac{1}{u^2} \quad u \neq 0$$

$$\begin{array}{c|cccc} u & 0 & 1 & 4 & 1 \\ y & 0 & 1 & 2 & 3 \end{array}$$

$$D = [0, \infty) \quad R = [0, \infty)$$

$$\begin{array}{c|cccc} u & -4 & -1 & 0 & 1 \\ y & -2 & -1 & 0 & 1 \end{array}$$

$$D = R \quad R = R$$

$$\begin{array}{c|cccc} u & -2 & -1 & 1 & 2 \\ y & \frac{1}{2} & 1 & 1 & \frac{1}{2} \end{array}$$

$$D = R \setminus \{0\} \quad R = (0, \infty)$$

$$y = \frac{1}{u^2} \quad u \neq 0$$

$$D = R \setminus \{0\}$$

$$R = (0, \infty)$$

$$\frac{1}{u^2}$$

$$\begin{array}{c|cccc} u & -2 & -1 & 1 & 2 \\ y & \frac{1}{4} & 1 & 1 & \frac{1}{4} \end{array}$$

$$\begin{array}{c|cccc} y & \frac{1}{4} & 1 & 1 & \frac{1}{4} \end{array}$$