

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

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

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

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

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

1

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1) $\cos 120^\circ = -\frac{1}{2}$ $\sin 150^\circ = \frac{1}{2}$

$\cos 120^\circ = -\cos 60^\circ$

$\sin 150^\circ = \sin 30^\circ$

$\cos 120^\circ = -\frac{1}{2}$

$\sin 150^\circ = \frac{1}{2}$

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2) $\cos \frac{5\pi}{6}$

$\frac{5\pi}{6} = 150^\circ$

$150^\circ - 30^\circ = 120^\circ$

$\cos \frac{5\pi}{6} = -\frac{1}{2}$

3) $\sin \frac{11\pi}{6}$

$\frac{11\pi}{6} = 330^\circ$

$330^\circ - 30^\circ = 300^\circ$

$\sin \frac{11\pi}{6} = -\frac{1}{2}$

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$$\kappa_a = a^r + p = a = 1$$

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$$y^2 = x^2$$

$$y = u$$

$$y = -u$$

$$u = 1$$

تابع $y = -1$

$$\text{f) } |y| + \sqrt{x-1} = 0$$

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

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

$(u, y) = (1, 0)$ تابع مت

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

$$\text{انف) } y-1 = \pm \sqrt{x-3}$$

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

$$y = 1 \pm 1$$

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ن

ب) $y^5 - y = 0$ $y(y^4 - 1) = 0$ $y = 0$ $y = 1$ $y = -1$ $y = i$ $y = -i$

2.) $\sin^2 x + \cos^2 x = 1$ $\Rightarrow \sin^2 x = 1 - \cos^2 x$ $\Rightarrow \sin^2 x = (1 - \cos x)(1 + \cos x)$ $\Rightarrow \sin^2 x = 0$ $\Rightarrow \sin x = 0$ $\Rightarrow x = 0, \pi, 2\pi, \dots$

$$2) \text{ } r \cos \theta = 1 \quad r \cos \theta = 1 \quad r = \frac{1}{\cos \theta} = \sec \theta \quad y = r \sin \theta = \sec \theta \sin \theta = \tan \theta$$

$$(y-1)=0 \Rightarrow y=1 \quad y=1 \quad u=0 \quad \underline{\underline{ب}}$$

بما $|u^2 + |y - 1| = fu$ $|y - 1| = fu - u^2$ $fu - u^2 \geq 0$
 $u(f - u) \geq 0$

$$0 \leq a_1 \leq K$$

$$y-1 = \pm (f_u - u^r)$$

$$y = 1 + (u - u^T)$$

$$|y-1| = 2$$

$$y = \omega \quad y = -r \quad X$$

+) $y^2 + 4y_1 = 0 \quad y^2 = -4y_1 \quad -4y_1 \geq 0 \quad 0 \leq 0$

$$y = \pm \sqrt{-3a} \quad y^2 = 1 \quad y = -1 \quad y = 1 \quad \text{in } X$$

$$y = \sqrt{x} \quad x \geq 0$$

$$\div 1 \text{ } y \cdot \sqrt{x}$$

$$2.) y = \frac{1}{a_1 x} \quad a_1 \neq 0$$

u	0	1	4	1	1	0	4
y	0	1	2	3	4	5	6

$$\frac{21}{11} - \frac{14}{11} = \frac{7}{11}$$

$$\frac{2}{3} - \frac{1}{2} = \frac{1}{6}$$

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

D-8 n n

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

1) $y \perp u \neq 0$

$$J \in K \quad K \in K$$

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

$$a_1 - r - 1 \quad 1 \quad r$$

$$D = R / \{ \cdot \}$$

$$y \quad \frac{1}{14} \quad 1 \quad 1 \quad \frac{1}{12}$$

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