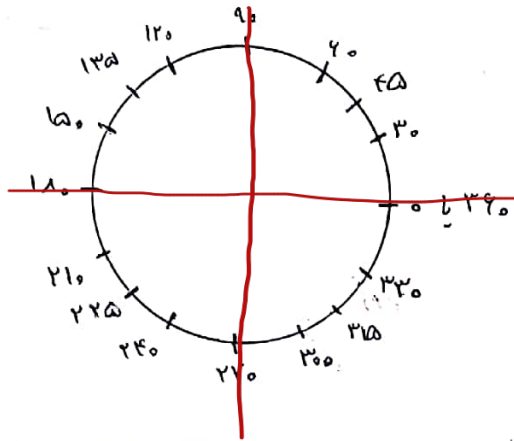


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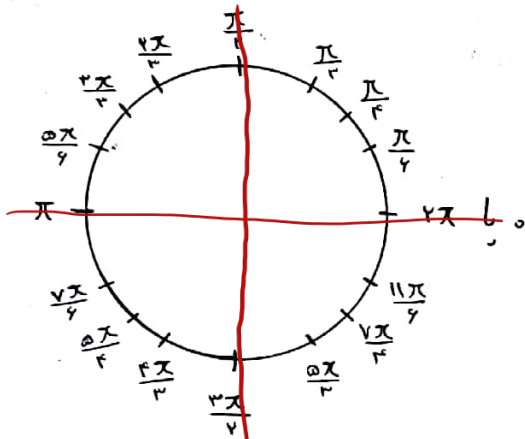
گورد ر عام سوالات
باید کشیده شود

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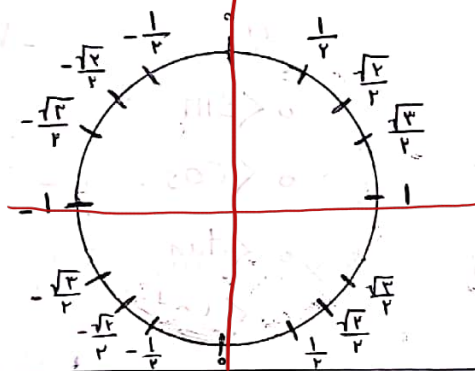
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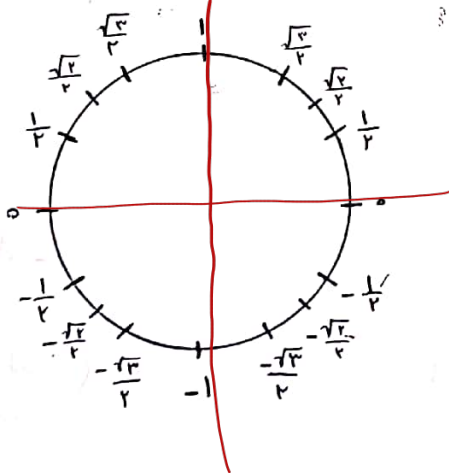
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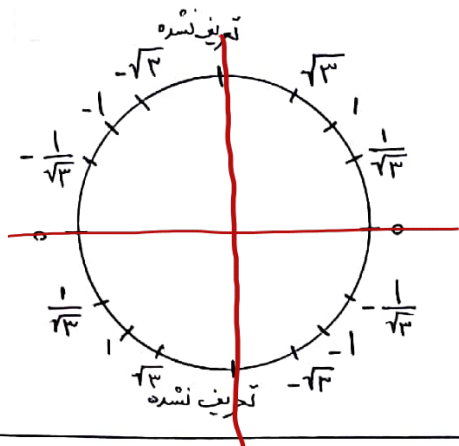
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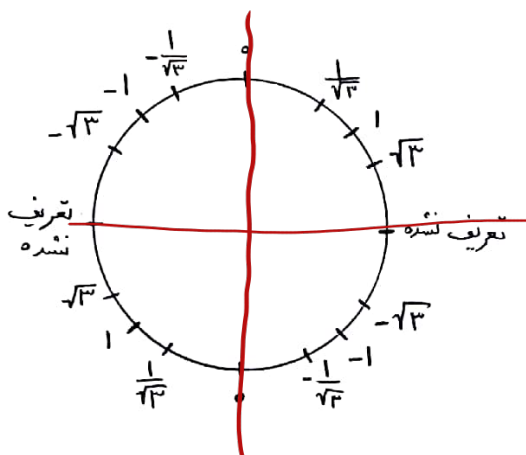




$$\tan x = \frac{\sin x}{\cos x}$$

111111

- 5



$$\cot x = \frac{\cos x}{\sin x}$$

111111

- 4

$$\tan = \sqrt{3}$$

$$\tan = \text{تعريف نسبه}$$

$$\cot = \frac{1}{\sqrt{3}}$$

$$\cot = 0$$

$$\cot = -1$$

$$\tan = -1$$

$$\cot = \sqrt{3}$$

$$\tan = \frac{1}{\sqrt{3}}$$

$$\tan = 0$$

$$\cot = \text{تعريف نسبه}$$

$$\cot = \sqrt{3}$$

$$\tan = \frac{1}{\sqrt{3}}$$

$$\cot = 1$$

$$\tan = 1$$

$$\cot = \frac{1}{\sqrt{3}}$$

$$\cot = 0$$

$$\cot = -\frac{1}{\sqrt{3}}$$

$$\tan = \sqrt{3}$$

$$\cot = \frac{1}{\sqrt{3}}$$

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$$\cot = \sqrt{3}$$

$$\tan = \frac{1}{\sqrt{3}}$$

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$$\tan = 1$$

$$\cot = \frac{1}{\sqrt{3}}$$

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$$\tan = \sqrt{3}$$

$$\tan = \text{تعريف نسبه}$$

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$$\tan = 1$$

$$\cot = \frac{1}{\sqrt{3}}$$

$$\cot = 0$$

$$\cot = -\frac{1}{\sqrt{3}}$$

$$\tan = \sqrt{3}$$

$$\tan = \text{تعريف نسبه}$$

$$\tan = \sqrt{3}$$

$$① = \cos > 0 \quad \sin > 0 \quad \tan > 0 \quad \cot > 0$$

$$② = \cos < 0 \quad \sin > 0 \quad \tan < 0 \quad \cot < 0$$

$$③ = \cos < 0 \quad \sin < 0 \quad \tan > 0 \quad \cot > 0$$

$$④ = \cos > 0 \quad \sin < 0 \quad \tan < 0 \quad \cot < 0$$

$$\cot = \text{تعريف نسبه} \quad \tan = 0$$

$$\cot = \sqrt{3} \quad \tan = \frac{1}{\sqrt{3}}$$

$$\cot = 1 \quad \tan = 1$$

$$\cot = \frac{1}{\sqrt{3}} \quad \tan = \frac{1}{\sqrt{3}}$$

$$\cot = 0 \quad \tan = \text{تعريف نسبه}$$

$$\cot = -\frac{1}{\sqrt{3}} \quad \tan = -\frac{1}{\sqrt{3}}$$

$$\cot = -1 \quad \tan = -1$$

$$\cot = -\frac{1}{\sqrt{3}} \quad \tan = -\frac{1}{\sqrt{3}}$$

$$\cot = -\frac{1}{\sqrt{3}} \quad \tan = -\frac{1}{\sqrt{3}}$$

$$\cot = -\frac{1}{\sqrt{3}} \quad \tan = -\frac{1}{\sqrt{3}}$$

111111

111111

الف) 60 درجه

$$\sin 120^\circ = \frac{\sqrt{3}}{2}$$

ب) 120 درجه

$$\cos 150^\circ = -\frac{\sqrt{3}}{2}$$

ج) 150 درجه

$$\tan 135^\circ = -\frac{1}{\sqrt{3}}$$

د) 135 درجه

$$\cot 135^\circ = -1$$

-9

$$\left(\frac{5\pi}{4}\right) \quad \left(\frac{\pi}{4}\right)$$

الف) ٣٠ درجه و ١٥٠ درجه

ب) ٣٠ درجه و ٢٤٠ درجه

ب) ٣٠ درجه و ٢٤٠ درجه

$$\left(\frac{4\pi}{3}\right) \quad \left(\frac{5\pi}{3}\right)$$

١. ب) ٣٠ درجه

الف) ١٨٠ درجه

ب) ٩٠ و ١٢٠ درجه

$$-\cos \frac{2\pi}{3} = +\frac{1}{2} = \sin x$$

120 درجه (for $\frac{2\pi}{3}$)
150 درجه (for x)
30 درجه (for x)

$$-\cos \frac{11\pi}{6} = -\frac{\sqrt{3}}{2} = \sin x$$

330 درجه (for $\frac{11\pi}{6}$)
30 درجه (for x)
240 درجه (for x)

$$\cot \frac{7\pi}{4} = \cos x \rightarrow 1$$

315 درجه (for $\frac{7\pi}{4}$)
180 درجه (for x)

$$-\cos 150^\circ = \frac{\sqrt{3}}{2} = \sin x$$

150 درجه (for 150°)
30 درجه (for x)
120 درجه (for x)