

$$\frac{1 + \sqrt{3}}{3 + 1} = \frac{1 + \sqrt{3}}{4}$$

(ب)

$$\left(\frac{\sqrt{2}}{2} - \frac{\sqrt{3}}{2} \right) \left(\frac{\sqrt{2}}{2} + \frac{\sqrt{3}}{2} \right) =$$

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

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$$\left. \begin{array}{l} \overline{AH} = 3\sqrt{3} \\ \overline{BH} = 3\sqrt{3} \end{array} \right\} \rightarrow B = 45^\circ$$

(ب)

$$\triangle AHB = \text{مساوی الساقین}$$

$$\overline{AH} = \sqrt{4} \rightarrow \overline{CH} = \sqrt{4}$$

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$$C = 30^\circ \rightarrow AC = 4$$

$$BC = \sqrt{13} \rightarrow DC = \sqrt{13}$$

$$\frac{1}{\sqrt{13}} = \frac{x}{1} \rightarrow x = \frac{1}{\sqrt{13}}$$

$$\frac{\sqrt{3}}{3} \text{ و } 50^\circ \frac{\sqrt{3}}{x+y}$$

$$\sqrt{3} \text{ و } 50^\circ \frac{\sqrt{3}}{y} \rightarrow y = 50$$

(الف)

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$$\hat{B} = 30^\circ$$

$$\frac{\sqrt{2}}{2}$$

$$\frac{1}{2}$$

$$= \frac{1}{x}$$

$$\frac{x}{y} = \frac{\sqrt{2}}{2}$$

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$$\frac{2}{3}$$

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$$\sqrt{3} \times \sqrt{3} \times \frac{\sqrt{3}}{2} =$$

$$\sqrt{3}$$

$$\sqrt{3} \times \sqrt{3} \times \frac{\sqrt{3}}{2} =$$

$$\sqrt{3}$$

(الف)

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$$m = \frac{1}{r}$$

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$$\theta = 30^\circ$$

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$$\cos \theta = \frac{1}{r}$$

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b s a

m s - 1/5

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$$\sqrt{1,5}$$

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$$-\cos(x) + \cos(x) - \cot(x) =$$

$$-\sqrt{3}$$

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$$\frac{-\cos x - \sin x}{-\cos x + \sin x} \cdot \frac{(\sin x + \cos x)}{(\sin x + \cos x)} =$$

$$\frac{-\sin^2 x - \cos^2 x}{\sin^2 x - \cos^2 x} =$$

$$-1 - \frac{\sin^2 x + \cos^2 x}{\sin^2 x - \cos^2 x}$$

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