

$$1) \quad 2\sqrt{x} \times \frac{x}{12} = \frac{2\sqrt{x}}{12} = \frac{q}{x} = \frac{2\sqrt{x}}{12}$$

$$2) \quad 120 \times \frac{x}{12} = \frac{120x}{12}$$

$$3) \quad \frac{5x}{12} \times \frac{12}{x} = 5 \quad \text{✓}$$

$$4) \quad \frac{6x}{9} \times \frac{12}{x} = 8 \quad \text{✓}$$

$$\frac{120x}{9} \times \frac{12}{12} = 120 \times \frac{12}{9} = \frac{120 \times 12}{9} = 160$$

$$\frac{ax}{x} \times \frac{12}{x} = 12, 0 + 12, 0 + 12, 0 = 36$$

$$1) \quad \left(\frac{1}{2} \times \frac{\sqrt{2}}{2} \right) - \left(\frac{\sqrt{2}}{2} \times \frac{1}{2} \right) = 1 - 1 = 0$$

$$2) \quad \frac{\frac{1}{2} + 4\sqrt{2}}{\frac{\sqrt{2}}{2} + \frac{1}{2}} = \frac{1+8\sqrt{2}}{\sqrt{2}+1}$$

$$\left(-\frac{1}{2} \times \frac{1}{2} \right) + \left(\frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} \right) = \sin^2 \theta \Rightarrow \sin^2 \theta = \frac{1}{2} \Rightarrow \sin \theta = \frac{\sqrt{2}}{2} \Rightarrow \theta = 45^\circ$$

$$\sin \theta = \frac{1}{2}, \theta < 90 \Rightarrow \theta = 30^\circ \quad \tan 60^\circ = 1$$

$$\tan 60^\circ = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$\frac{\tan 60^\circ (1 - \tan^2 60^\circ)}{(1 - \cot^2 60^\circ)} = \frac{\tan 60^\circ}{(1 - \cot^2 60^\circ)} = \frac{1}{1 - \frac{1}{3}} = \sqrt{3}$$

$$\Rightarrow \tan \theta = \sqrt{3} \Rightarrow \tan \theta = \sqrt{3}, \theta < 90$$

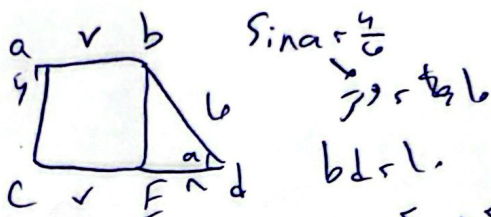
$$\theta = 60^\circ = \frac{\pi}{3}$$

$$\sin = \tan \times \cos$$

-4

$$\frac{c \sin \theta - c \cos \theta}{\sin \theta - c \cos \theta} = \frac{c \times \tan \theta \times \cos \theta - c \cos \theta}{\tan \theta \times \cos \theta - c \cos \theta} \Rightarrow \text{if}$$

(2) ✓



$$\sin a = \frac{4}{c}$$

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$$E \downarrow = \frac{1}{c} \Rightarrow E \downarrow \Rightarrow E \downarrow \Rightarrow$$

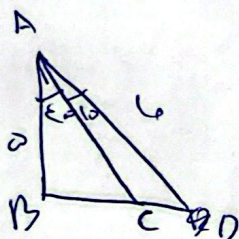
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(2) ✓

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$$BD \Rightarrow \sin 4 = \frac{\sqrt{c}}{r} \Rightarrow \frac{BD}{AD} = \frac{\sqrt{c}}{r} \Rightarrow \frac{BD}{r} = \frac{\sqrt{c}}{r}$$

$$\Rightarrow BD = \sqrt{c} \quad \left\{ \begin{array}{l} AB \Rightarrow \cos 4 = \frac{1}{r} \Rightarrow \frac{AB}{r} = \frac{1}{r} \end{array} \right.$$



$$BC \Rightarrow \tan 4 = 1 \Rightarrow BC = AB, \quad BC =$$

(2) ✓

$$DC = BD - BC = \sqrt{c} - a$$

-9

$$\text{الف) } \cos \uparrow \Rightarrow \text{عکس} \quad \sin \uparrow \Rightarrow \text{عکس}$$

$$\text{ب) } \sin \uparrow \rightarrow c, r \quad \cos \uparrow \rightarrow \text{عکس}$$

(2) ✓

-10

$$\tan x = \frac{1}{\sqrt{c}} \Rightarrow \frac{\sin}{\cos} = \frac{1}{\sqrt{c}} \Rightarrow c \cdot s = \sin$$

$$\sin^2 + \cos^2 = 1$$

$$\sin^2 + (\cos^2) = 1$$

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$$|\sin^2| = \sin^2 \Rightarrow \sin^2 = \frac{1}{c} \Rightarrow \sin = \frac{1}{\sqrt{c}}$$

(2) ✓