

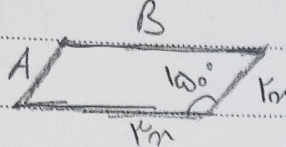
Subject:

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1  $\rightarrow S_{\triangle} = \frac{1}{2} \times 2m \times 2m \times \sin 100^\circ$ (1)

2 $\omega r = 4\pi r \rightarrow \pi r = 1A \rightarrow r = \frac{1}{\pi} \sqrt{A}$

3 $\rightarrow b_{100^\circ} = \frac{1}{2} (2 \times 2\sqrt{2}) + \frac{1}{2} (2 \times 2\sqrt{2}) = 2\sqrt{2} + 2\sqrt{2} = 4\sqrt{2}$ (5)

5 $S_{ABC} - S_{ADE} = 1/10 \rightarrow (\frac{1}{2} \times 2 \times 2 \times \sin \hat{A}) - (\frac{1}{2} \times 2 \times 2 \times \sin \hat{A}) = 1/10$ (2)

7 $\rightarrow 2 \sin \hat{A} - 2 \sin \hat{A} = \frac{1}{10} \rightarrow \sin \hat{A} = \frac{1}{20}, \hat{A} < 90^\circ \rightarrow \hat{A} = 3^\circ$ (5)

9 $\rightarrow \tan 3^\circ = \frac{\sqrt{2}}{10}$

11 $\frac{|\sin a|}{\cos a} = -1$ $\rightarrow \sin a < 0$ (4)

12 $\rightarrow \sin a < 0$

13 $\rightarrow \sin a < 0$

14 $\frac{1}{\sqrt{\cos a}} - \tan a = \frac{1 + \sin a}{|\cos a|} \rightarrow \frac{1}{\sqrt{\cos a}} - \frac{\sin a}{\cos a} = \frac{1 + \sin a}{|\cos a|}$ (5)

16 $m = \frac{1/a - 0}{0 - 2} = \frac{-1/a}{-2} \rightarrow \tan a = \frac{-1/a}{-2}$ (4)

18 $\rightarrow \tan(\frac{\pi}{2} - a) = \cot a = \frac{-1/a}{-2}$ (5)

20 $\frac{2 \cos(\frac{3\pi}{4} - 22^\circ) - 2 \sin(\pi - 22^\circ)}{\sin(\pi + 22^\circ) - \cos(\frac{3\pi}{4} + 22^\circ)} = \frac{-\sqrt{2} \sin(22^\circ) - 2 \sin(22^\circ)}{-\sin(22^\circ) - \sin(22^\circ)}$ (4)

21 $= \frac{0}{-2 \sin(22^\circ)}$ (5)

24 $\frac{\sin(\frac{\pi}{4} + a) + \sin(\pi - a)}{\tan a - 1} = \frac{\cos a + \sin a}{\tan a - 1} = \cos a (\frac{\cos a + \sin a}{\tan a - 1})$ (4)

26 $\rightarrow \sin a = \frac{1 - \frac{1}{a}}{\frac{1}{a}} \rightarrow \sin a = \frac{a - 1}{1} \rightarrow 1 - \frac{1}{a} = 1 - \frac{1}{a}$

27 $\rightarrow \tan a = \frac{0}{1} = 0$

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$$\sin^2 a + \cos^2 a = 1 \rightarrow \cos^2 a = 1 \rightarrow |\cos a| = \frac{\sqrt{a}}{a} \xrightarrow{\text{Final}} \textcircled{V} \quad 1$$

$$\cos a = -\frac{\sqrt{a}}{a} \quad \textcircled{5} \quad 2$$

$$\tan 45^\circ = \frac{2}{1} = \sqrt{k} \rightarrow m^2(y) = k - 2mn \rightarrow \textcircled{\wedge} \quad 3$$

$$y = \frac{2mn}{m^2-1} + k \rightarrow \sqrt{k} = \frac{-2m}{m^2-1} \rightarrow m^2\sqrt{k} + 2m - \sqrt{k} = 0 \rightarrow \textcircled{5} \quad 4$$

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$$D = \frac{\sqrt{\Delta}}{|\text{total}|} = \frac{\sqrt{k+1k}}{\sqrt{k}} = \frac{k}{\sqrt{k}} = \frac{k\sqrt{k}}{k} \quad 5$$

$$-\frac{\pi}{k} < n < \frac{\pi}{k} \rightarrow -\frac{\pi}{k} < -n < \frac{\pi}{k} \rightarrow 0 < \frac{\pi}{k} - n < \frac{\pi}{k} \quad \textcircled{1} \quad 6$$

$$\rightarrow \tan 0 < \tan\left(\frac{\pi}{k} - n\right) < \tan \frac{\pi}{k} \rightarrow 0 < \frac{1-m}{k+m} < \frac{-2}{k} \quad \textcircled{5} \quad 7$$

$$\rightarrow -2 < m < 1 \quad 8$$

$$\tan(k\theta) \cos(k\theta) + \tan(\theta) \sin(k\theta) = 0$$

$$= \sqrt{k} \times -\frac{\sqrt{k}}{k} + -\sqrt{k} \times \frac{\sqrt{k}}{k} = 0 \quad \textcircled{3} \quad 9$$