

3a. [1 mark]

Show that $\cot 2\theta = \frac{1 - \tan^2 \theta}{2 \tan \theta}$.

<p>Method 1</p> <p>Let $\frac{\cos 2\theta}{\sin 2\theta}$</p> $\Rightarrow \frac{\cos^2 \theta - \sin^2 \theta}{2 \sin \theta \cos \theta}$ $\Rightarrow \frac{\cos^2 \theta (1 - \tan^2 \theta)}{2 \sin \theta \cos \theta}$ $\Rightarrow \frac{1 - \tan^2 \theta}{2 \sin \theta \cos \theta} \cdot \frac{\cos \theta}{\cos \theta}$ $\Rightarrow \frac{1 - \tan^2 \theta}{2 \sin \theta \cos \theta} \cdot \frac{\cos \theta}{\cos \theta} \quad \square$	<p>Method 2</p> <p>Let $\frac{1 - \tan^2 \theta}{2 \tan \theta}$</p> $\Rightarrow \frac{1 - \frac{\sin^2 \theta}{\cos^2 \theta}}{2 \frac{\sin \theta}{\cos \theta}}$ $\Rightarrow \frac{\frac{\cos^2 \theta - \sin^2 \theta}{\cos^2 \theta}}{2 \frac{\sin \theta}{\cos \theta}}$ $\Rightarrow \frac{\cos^2 \theta - \sin^2 \theta}{\cos^2 \theta} \cdot \frac{\cos \theta}{2 \sin \theta}$ $\Rightarrow \frac{\cos^2 \theta - \sin^2 \theta}{2 \sin \theta \cos \theta} \quad \square$
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3b. [7 marks]

Verify that $x = \tan \theta$ and $x = -\cot \theta$ satisfy the equation $x^2 + (2 \cot 2\theta)x - 1 = 0$.

If $x = \tan \theta$ and $x = -\cot \theta$ are the solutions then they must satisfy the equation

Case 1: $x = \tan \theta$

$$(\tan \theta)^2 + (2 \cot 2\theta) \tan \theta - 1$$

$$\tan^2 \theta + 2 \left(\frac{1 - \tan^2 \theta}{2 \tan \theta} \right) \tan \theta - 1$$

$$\tan^2 \theta + 1 - \tan^2 \theta - 1 = 0$$

Thus $\tan \theta$ is the solution of $x^2 + (2 \cot 2\theta)x - 1 = 0$

Case 2: $x = -\cot \theta$

$$(-\cot \theta)^2 + (2 \cot 2\theta)(-\cot \theta) - 1$$

$$\cot^2 \theta - 2 \left(\frac{1 - \tan^2 \theta}{2 \tan \theta} \right) \frac{1}{\tan \theta} - 1$$

$$\cot^2 \theta - (\cot^2 \theta - 1) - 1$$

$$\cot^2 \theta - \cot^2 \theta + 1 - 1 = 0$$

Thus $-\cot \theta$ is the solution of $x^2 + (2 \cot 2\theta)x - 1 = 0$

3c. [5 marks]

Hence, or otherwise, show that the exact value of $\tan \frac{\pi}{12} = 2 - \sqrt{3}$.

Let $\theta = \frac{\pi}{12}$ \therefore put $\theta = \frac{\pi}{12}$ in $x^2 + (2 \cot(2 \cdot \frac{\pi}{12}))x - 1 = 0$

$$\Rightarrow x^2 + 2 \cot(\pi/6)x - 1 = 0 \Rightarrow x^2 + \frac{2}{\tan(\pi/6)}x - 1 = 0$$

$$\Rightarrow x^2 + \frac{2}{\frac{1}{\sqrt{3}}}x - 1 = 0 \Rightarrow x^2 + 2\sqrt{3}x - 1 = 0$$

$$\Rightarrow \frac{-2\sqrt{3} \pm \sqrt{(2\sqrt{3})^2 - 4(1)(-1)}}{2(1)} \Rightarrow \frac{-2\sqrt{3} \pm \sqrt{12+4}}{2}$$

$$\Rightarrow \frac{-2\sqrt{3} \pm 4}{2} \Rightarrow -\sqrt{3} \pm 2$$

$\tan(\frac{\pi}{12}) = 2 - \sqrt{3}$ (since $0 < \theta < \frac{\pi}{2}$)

$\cot(\frac{\pi}{12}) = \frac{1}{2 - \sqrt{3}} = 2 + \sqrt{3}$

$-\cot(\frac{\pi}{12}) = -2 - \sqrt{3}$

$\Rightarrow \cot(\frac{\pi}{12}) = 2 + \sqrt{3}$

3d. [6 marks]

Using the results from parts (b) and (c) find the exact value of $\tan \frac{\pi}{24} - \cot \frac{\pi}{24}$

Give your answer in the form $a + b\sqrt{3}$ where $a, b \in \mathbb{Z}$.

To evaluate $\tan \frac{\pi}{24}$ let's use the equation for $\tan \theta$ & result for $\tan \theta = 2 - \sqrt{3}$

\therefore in eq (1) let $\theta = \frac{\pi}{24} \Rightarrow x^2 + 2 \cot(2 \cdot \frac{\pi}{24})x - 1 = 0$

$$\Rightarrow x^2 + 2 \cot(\frac{\pi}{12})x - 1 = 0$$

$\tan(\frac{\pi}{24}) - \cot(\frac{\pi}{24})$

$= -7.46410161514$

$-4 - 2\sqrt{3}$

$= -7.46410161514$

$$\Rightarrow x^2 + 2(2 + \sqrt{3})x - 1 = 0 \Rightarrow \frac{-2(2 + \sqrt{3}) \pm \sqrt{(2 + \sqrt{3})^2 - 4(1)(-1)}}{2(1)}$$

$$\Rightarrow x^2 + (4 + 2\sqrt{3})x - 1 = 0 \Rightarrow \frac{-4 - 2\sqrt{3} \pm \sqrt{16 + 16\sqrt{3} + 12 + 4}}{2}$$

$$\Rightarrow x^2 + (4 + 2\sqrt{3})x - 1 = 0 \Rightarrow \frac{-4 - 2\sqrt{3} \pm \sqrt{28 + 16\sqrt{3}}}{2}$$

$$\therefore \tan(\frac{\pi}{24}) = \frac{-4 - 2\sqrt{3} \pm \sqrt{28 + 16\sqrt{3}}}{2}$$

$$\tan(\frac{\pi}{24}) = \frac{-4 - 2\sqrt{3} \pm \sqrt{4 + 4\sqrt{3}}}{2} = \frac{-4 - 2\sqrt{3} + \sqrt{4 + 4\sqrt{3}}}{2} \Rightarrow -2 - \sqrt{3} + \sqrt{1 + \sqrt{3}}$$

$$\therefore -\cot(\frac{\pi}{24}) = -2 - \sqrt{3} - 2\sqrt{1 + \sqrt{3}} \Rightarrow \cot(\frac{\pi}{24}) = 2 + \sqrt{3} + 2\sqrt{1 + \sqrt{3}}$$

$\therefore \tan(\frac{\pi}{24}) - \cot(\frac{\pi}{24}) = -2 - \sqrt{3} + 2\sqrt{1 + \sqrt{3}} - 2 - \sqrt{3} - 2\sqrt{1 + \sqrt{3}} = -4 - 2\sqrt{3}$

Note: We did not verify $\tan \theta$ and $-\cot \theta$. For $\theta = \frac{\pi}{24}$ and $\theta = \frac{\pi}{12}$ we check the true value of $\tan \theta$ so $-\cot \theta$ becomes the other root.

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