

(i) Using De Moivre's theorem, show that

$$\sin 5\theta \equiv 16 \sin^5 \theta - 20 \sin^3 \theta + 5 \sin \theta \quad [6]$$

(ii) Hence show that if θ is not a multiple of π

$$\frac{\sin 5\theta}{\sin \theta} \equiv 16 \cos^4 \theta - 12 \cos^2 \theta + 1 \quad [3]$$

(iii) By solving the equation $\sin 5\theta = 0$, deduce that

$$\cos^2\left(\frac{\pi}{5}\right) = \frac{3 + \sqrt{5}}{8} \quad [6]$$

(iv) Write down the corresponding value for $\cos^2\left(\frac{2\pi}{5}\right)$ [1]

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