

Higher Mathematics

Trigonometric Equations - Questions - 2013-2017

Marks are indicated in brackets after each question number

2013 Paper 1 Question 15, (2)

Solve $\tan\left(\frac{x}{2}\right) = -1$ for $0 \leq x < 2\pi$.

2013 Paper 2 Question 8, (6)

Solve algebraically the equation

$$\sin 2x = 2 \cos^2 x \quad \text{for } 0 \leq x < 2\pi$$

2014 Paper 2 Question 6, (5)

Solve the equation

$$\sin x - 2 \cos 2x = 1 \quad \text{for } 0 \leq x < 2\pi.$$

2017 Paper 2 Question 6, (5)

Solve $5 \sin x - 4 = 2 \cos 2x$ for $0 \leq x < 2\pi$.