

20th November

Corbettmaths

Write down the exact value of $\cos 570^\circ$

Given that

$$(x + 3)(x - 5)(x + a) \equiv x^3 + 4x^2 - 27x - 90$$

Find the value of a

$$y = (\sqrt{x})^{12}$$

Work out $\frac{dy}{dx}$ Show that $3\cos^2\theta \equiv 3 - 3\sin^2\theta$ Hence solve $3\cos^2\theta - 5\sin\theta = 1$
for $0^\circ \leq \theta \leq 360^\circ$