

25th April

Corbettmaths

$$f(x) = 5 - 2x \quad \text{for } -4 \leq x \leq 3$$

Work out the range of $f(x)$ The transformation matrix $\begin{pmatrix} b & -2 \\ -1 & 3 \end{pmatrix}$ maps the point $(4, 1)$ onto the point $(34, c)$ Find b and c Prove $-(2x + 1)^2 - x(x - 6)$ is negative for all values of x

Solve

$$3\cos^2 x - 2\sin^2 x = 1$$

for $0^\circ < x < 360^\circ$