

22nd October

Corbettmaths

Expand and simplify fully

$$(5y - 1)^2(y - 2)$$

Find where the matrix $\begin{pmatrix} 5 & 0 \\ 2 & -4 \end{pmatrix}$ maps
the point $(3, -2)$

$$y = 2x^8 + \frac{5}{x^3}$$

Work out $\frac{d^2y}{dx^2}$

Show that $2\cos^2\theta \equiv 2 - 2\sin^2\theta$

Hence solve $2\cos^2\theta - \sin\theta = 1$ for
 $0^\circ \leq \theta \leq 360^\circ$