

21st April

Corbettmaths

Point A has coordinates (5, 7)
Point B has coordinates (13, -27)

Find the equation of the line perpendicular to AB that passes through the midpoint of AB

How many solutions of $\cos x = k$, where $0 < k < 1$, are between 0° and 450° ?

$$y = \frac{8x^5 + x^7}{2x^3}$$

Work out the value of $\frac{d^2y}{dx^2}$ when $x = -1$

Find the transformation matrix that is equivalent to

- a reflection in the line $y = x$

followed by

- a rotation, 90° anticlockwise about the origin