

3rd March

Corbettmaths

Calculate the distance between the points $(-10, 2)$ and $(35, 17)$

Work out the value of

$$\sqrt[3]{\frac{x - 172}{x + 214}}$$

when $x = 5.15 \times 10^2$

$$y = 3x^4 - \frac{2}{x^3}$$

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

Here are two transformations:

A: A rotation of 180°

B: A reflection in the line $y = x$

Work out the single matrix which represents the combined transformation A followed by B.