

Name: _____

5-a-day

Higher Plus



Corbettmaths

18th April

Are the lines $4x - y - 5 = 0$ and $x + 4y + 1 = 0$ perpendicular?

Helen says that the cosine of an angle is -1 .

Write down three possible angles

Solve the simultaneous equations

$$\begin{aligned}x^2 + y^2 &= 5 \\ 2x + y - 5 &= 0\end{aligned}$$

For all values of x

$$f(x) = \frac{2x + 1}{4}$$

Find

$$f^{-1}(x)$$

The graph with equation $y = x^3$ is translated by the vector $\begin{pmatrix} -1 \\ 0 \end{pmatrix}$

Write down the equation of the translated graph

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