

2nd November

Corbettmaths

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

Write down three possible angles

Solve the simultaneous equations

$$x^2 + y^2 = 5$$

$$2x + y - 5 = 0$$

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

The universal set contains the whole numbers 1 to n .

n is an odd number greater than 200.

O is the set of odd numbers

P is the set of prime numbers

How many numbers are in $O \cup P$?