

1st March

Corbettmaths

Solve the simultaneous equations

$$2y = 4x - 18$$

$$2x = 15 + 3y$$

Solve $\cos\theta = -0.43$
for $0^\circ \leq \theta \leq 360^\circ$

$$\mathbf{A} = \begin{pmatrix} -2 & 4 \\ 1 & 0 \end{pmatrix} \quad \mathbf{B} = \begin{pmatrix} 0 & 1 \\ p & q \end{pmatrix}$$

Given $\mathbf{AB} = \mathbf{I}$

Find p and q