

1st December

Corbettmaths

$$\mathbf{M} = \begin{pmatrix} -2 & 3 \\ -4 & -1 \end{pmatrix}$$

Work out the matrix \mathbf{M}^2

A group of 15 people enter a room.
Each person shakes hands, once, with
all the other people in the room.

How many handshakes are there in
total?

Solve the simultaneous equations

$$x + y + 2z = 18$$

$$-x + 2y + 8z = 52$$

$$2x + 3y + z = 72$$

Solve $\cos\theta = -0.7$ for
 $0^\circ \leq \theta \leq 360^\circ$