9th May

Corbettmaths

$f(x) = \left(\frac{7x}{4}\right)^{-1}$

$g(x) = \frac{3x-2}{7}$

Solve $g^{-1}(x) = f(x)$

Give your answers to 2 decimal places

A $= \begin{pmatrix} 9 & -1 \\ 3 & 4 \end{pmatrix}$ **B** $= \begin{pmatrix} 3 & 1 \\ -2 & 5 \end{pmatrix}$

Work out the matrix **BA**

Work out the gradient of the curve $y = (x-2)(x+1)^2$ at the point (2, 0)

Show that

$cos^2\theta + (1 + sin\theta)^2 \equiv 2(sin\theta + 1)$