


31st May	
Prove that the product of two odd numbers is always odd.	 Corbettmaths $(2m+1)(2n+1)$ $= 4mn + 2m + 2n + 1$ $= 2(2mn + m + n) + 1$ \downarrow odd.
$f(x) = \sin x$ for all values of x $g(x) = \cos x$ for all values of x Calculate the value of $gg(630^\circ)$	$g(630) = 0$ $g(0) = \underline{1}$
Solve the simultaneous equations $5x - y + 2z = -10$ (1) $3x - 2y + 5z = 5$ (2) $5y - 2x - 3z = 9$ (3)	$(1) \times 3 + (2) \times 2: 11x + 7y = -12$ $(2) \times 3 + (3) \times 5: -x + 19y = 60$ $\begin{array}{r} -11x + 209y = 660 \\ \hline 216y = 648 \\ y = 3 \\ x = -3 \end{array}$ $-15 - 3 + 2z = -10$ $\Rightarrow \underline{z = 4}$
Work out the matrix that transforms the unit square by a reflection in the x-axis. $(1, 0) \rightarrow (1, 0)$ $(0, 1) \rightarrow (0, -1)$	$\underline{\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}}$