22nd February

	100 2	1.60	_
Solve	$100x^2 -$	-169 =	()

Corbettmaths

$$2a(3x - 4) + 5(ax + 6) \equiv 77x + b$$

Work out a and b

The transformation matrix **M** is

$$\begin{pmatrix} 1 & a \\ -4 & 1 \end{pmatrix}$$

The image of the point $(b,\ 3)$ under **M** is $(14,\ -5)$

Find a and b

$$f(x) = 2x^3 - 8x^2 + 30x + 2$$

Show that f(x) is an increasing function for all values of x.