Name: _____ 5-a-day Further Maths

13th October

Corbettmaths

$y = ab^x$ passes through the points

$(3, 5)$ and $(5, 1.25)$

Find the values of a and b.

Sketch $y = x^2 - 6x + 14$
and find the distance between A, where the curve meets the y-axis, and B, the minimum point.

A $= \begin{pmatrix} 6 & -2 \\ -1 & 3 \end{pmatrix}$ **B** $= \begin{pmatrix} 3 & 8 \\ 7 & 3 \end{pmatrix}$

C $= \begin{pmatrix} -3 \\ 2 \end{pmatrix}$

Work out the matrix **BAC**