MTH 111, Math. for the Architects, Quiz one 2014

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QUESTION 1. For the ellipse
$$\frac{(x-4)^2}{16}+\frac{(y+3)^2}{9}=1$$
 find

- (i) The constant k
- (ii) The vertices

(iii) The foci

QUESTION 2. For the parabola $4x = y^2 + 6y - 3$. Find the vertex, the focus and the directrix

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QUESTION 3. Find an equation of the ellipse where one of the foci is $(4,5)$, $(1,c)$ (for some number c) and $(1,8)$ are vertices Draw a rough sketch of the curve.	

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