MTH 111, Math. for the Architects, Quiz two Spring 2014

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QUESTION 1. Find an equation of the hyperbola where $(2, 4), (-2, 4)$ are the foci, and the point $(2, 7)$ lies on its curve (graph). What are the vertices?

QUESTION 2. For the curve $(y - 2)^2/16 - (x + 4)^2/33$ find: vertices, center, foci, and the constant K.

QUESTION 3. Find the foci, vertices, the constant K for the hyperbola $5x^2 - y^2 - 8y = 36$.

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