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

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QUESTION 1. Let $f(x) = x^2 + 5y^2 - 2xy = 5$.

(i) find y'.

(ii) Find the equation of the tangent line to the curve at (2, 1).

(iii) Find all points on the curve where tangent line is horizontal.

QUESTION 2. find y'

a) $y = x^2 e^{(x+1)}$.

b) $y = 3^{(x^2 - 5x + 1)} + 5e^{(2x+7)} - x^2 + 9$

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