MATH 073

Exam #2

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$$\frac{\partial A}{\partial L} = V \qquad \frac{\partial A}{\partial M} = L$$

$$f_{x}(x_{1}y) = \ln(x_{1}-5) + \frac{xy}{xy-5}$$
  $f_{y}(x_{1}y) = \frac{x}{x_{1}-5}$   $f_{y}(x_{1}y) = \frac{x}{x_{1}-5}$   $f_{y}(x_{1}y) = \frac{x}{x_{1}-5}$ 

$$L_{x}(a,b) = f(a,b) + f_{x}(a,b)(x-a) + f_{y}(a,b)(y-b)$$

$$L_{x}(2,3) = 1 + 6(x-2) + 4(y-3) = 1 + 6x-12 + 4y-12 = 6x+4y-23$$