KFUPM Term (151) Name_____

MATH 201 Quiz # 4 ID#_____ Section 02

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1) Find the limit $\lim_{(x,y)\to(1,0)} \frac{xy-y}{(x-1)^2+y^2}$ or show that limit does not exist.

2) Find $\frac{\partial z}{\partial x}$ if $yz + x\ln y = z^2$.

3) If $v = x^2 \sin y + ye^{xy}$, where $x = s + 2t$ and $y = st$ find $\frac{\partial v}{\partial s}$ when $s = 0$ and $t = 1$.

KFUPM Term (151) Name_____

MATH 201 Quiz # 4 ID#_____ Section 07

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1) Find the limit $\lim_{(x,y)\to(1,0)} \frac{xy-y}{(x-1)^2+y^2}$ or show that limit does not exist.

2) Find $\frac{\partial z}{\partial y}$ if $yz + x\ln y = z^2$.

3) If $v = x^2 \sin y + ye^{xy}$, where $x = s + 2t$ and $y = st$ find $\frac{\partial v}{\partial t}$ when $s = 0$ and $t = 1$.