Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 23**	

Standard: This student is able to...	Mark:
C06: ChainRule. Apply the multivariable Chain Rule to compute derivatives and find normal vectors.	
3/4 ⋆ reattempt due on:	

Let the equation $3x^2y = 4y^2 + 3x - 10$ define y as a differentiable function of x near the point $\langle 1, -1\rangle$. Use partial derivatives to find $\frac{dy}{dx}$ at the point $\langle 1, -1\rangle$.

Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 23**	

Standard: This student is able to... **S06: Lineariz.** Compute the linearization of a two-variable real-valued function at a point and use it for approximation. 2/3 ⋆ reattempt due on:	Mark:

Find the linearization $L(x,y)$ for $f(x,y)=ye^{xy}$ at the point $\langle 0,2\rangle$. Then use it to show that $f(-0.01,2.03)\approx 1.99$. (Hint: Don't forget to use the product rule to find f_y.)