Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 26**	

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

Find an equation for the plane tangent to the graph of $f(x,y)=4xy$ at the point $\langle 1,-2\rangle$.

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

Find the linearization $L(x,y)$ for $f(x,y)=\sin(xy)$ at the point $\langle 3,0\rangle$. Then use it to show that $f(2.99,0.01)\approx 0.03$.

Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 26**	

Standard: This student is able to...	Mark:
S07: Optimiz. Use the first-derivative test and Lagrange multipliers to optimize a real-valued multivariable function.	
1/3 ⋆ reattempt due on:	

Find the maximum value of the function $f(x,y) = 3-x^2-y^2+2y$ on the closed and bounded half-disk $0 \leq y \leq \sqrt{4-x^2}$.