

Name:
J#:
Date: 2017 June 22

Exercise Type:

Quiz

Standard: This student is able to...	Mark:
C05: MultivarCalc. Compute and apply the partial derivatives, gradient, and directional derivatives of a multivariable real-valued function.	
4/4	★ reattempt due on:

Verify the mixed derivative theorem $f_{xz} = f_{zx}$ for $f(x, y, z) = 2yz - 3x^2z$ by computing the second partial derivative both ways.

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Standard: This student is able to...	Mark:
C06: ChainRule. Apply the multivariable Chain Rule to compute derivatives and find normal vectors.	
2/4	★ reattempt due on:

Find the normal vector to the surface $ze^x + 5xy = yz - 3$ at the point $\langle 0, 2, 3 \rangle$.

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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.	
1/3	★ reattempt due on:

Find the linearization $L(x, y)$ for $f(x, y) = 2x + y\sqrt{x}$ at the point $\langle 4, -2 \rangle$. Then use it to show that $f(3.9, -1.9) \approx 4.05$.