

Name:
J#:
Date: 2017 July 19

Exercise Type:

Quiz

Standard: This student is able to...	Mark:
C10: VectField. Analyze vector fields, including computing curl and divergence.	
4/4	★ reattempt due on:

Find the curl and divergence of the vector field $\mathbf{F}(x, y, z) = x^2y\hat{i} + 3\hat{j} - z\hat{k}$. Then compute the curl and divergence of the vector field at the point $2\hat{j}$.

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Standard: This student is able to...	Mark:
C11: LineInt. Compute and apply line integrals.	
2/4	★ reattempt due on:

Rewrite $\int_C (x + 2y) \, ds$ as a definite integral with respect to t , where C is the circle $(x - 2)^2 + (y - 3)^2 = 4$. (Do not solve this integral.)

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Standard: This student is able to...	Mark:
C12: FundThmLine. Apply the Fundamental Theorem of Line Integrals.	
1/4	★ reattempt due on:

Find $\int_C \mathbf{F} \cdot d\mathbf{r}$ where $\mathbf{F} = \langle 2xz, -3z, x^2 - 3y \rangle$ and C is an unknown curve that begins at $\langle 1, 1, 1 \rangle$ and ends at $\langle 2, 0, 1 \rangle$.