Hw 27 (16.2): Line Integrals 10/27/12 7:50 PM

WebAssign

Hw 27 (16.2): Line Integrals (Homework)

Yinglai Wang MA 261 Fall 2012, section 121, Fall 2012 Instructor: David Daniels

Current Score : 20 / 20 **Due :** Tuesday, October 30 2012 11:00 PM EDT

1. 3.33/3.33 points | Previous Answers

SCalcET7 16.2.001.

Evaluate the line integral, where C is the given curve.

$$\int_C y^3 \, ds, \quad C: \, x = t^3, \quad y = t, \quad 0 \le t \le 5$$



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2. 3.33/3.33 points | Previous Answers

SCalcET7 16.2.004.

Evaluate the line integral, where *C* is the given curve.

 $\int_C x \sin y \, ds, C \text{ is the line segment from } (0, 2) \text{ to } (4, 5)$



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3. 3.33/3.33 points | Previous Answers

SCalcET7 16.2.007.

Evaluate the line integral, where *C* is the given curve.

 $\int_C (x+6y) dx + x^2 dy$, C consists of line segments from (0, 0) to (6, 1) and from (6, 1) to (7, 0)



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4. 3.33/3.33 points | Previous Answers

SCalcET7 16.2.010.

Evaluate the line integral, where *C* is the given curve.

 $\int_C xyz^2 ds, C \text{ is the line segment from } (-2, 6, 0) \text{ to } (0, 7, 1)$



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5. 3.33/3.33 points | Previous Answers

SCalcET7 16.2.011.

Evaluate the line integral, where *C* is the given curve.

 $\int_C xe^{yz} ds, C \text{ is the line segment from } (0, 0, 0) \text{ to } (3, 2, 4)$



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6. 3.35/3.35 points | Previous Answers

SCalcET7 16.2.036.

Find the mass and center of mass of a wire in the shape of the helix x = t, $y = 2 \cos t$, $z = 2 \sin t$, $0 \le t \le 2\pi$, if the density at any point is equal to the square of the distance from the origin.



mass

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center of mass

 $(\overline{x}, \overline{y}, \overline{z}) = ($

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