WebAssign
Hw 33 (16.6): Parametric Surfaces and Areas (Homework)

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MA 261 Fall 2012, section 121, Fall 2012
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Current Score : 20 / 20 **Due :** Tuesday, November 20 2012 11:00 PM EST

1. 3.33/3.33 points | Previous Answers SCalcET7 16.6.033.

Find an equation of the tangent plane to the given parametric surface at the specified point.

$x = u + v, \quad y = 9u^2, \quad z = u - v; \quad (2, 9, 0)$

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2. 3.33/3.33 points | Previous Answers SCalcET7 16.6.039.MI.

Find the area of the part of the plane $4x + 3y + z = 12$ that lies in the first octant.

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3. 3.33/3.33 points | Previous Answers SCalcET7 16.6.043.

Find the area of the surface.

$z = \frac{2}{3}\left(x^{3/2} + y^{3/2}\right), \ 0 \le x \le 1, \ 0 \le y \le 1$

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4. 3.33/3.33 points | Previous Answers SCalcET7 16.6.045.

Find the area of the surface.

The part of the surface $z = xy$ that lies within the cylinder $x^2 + y^2 = 36$.

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5. 3.33/3.33 points | Previous Answers SCalcET7 16.6.047.

Find the area of the surface.

The part of the surface $y = 3x + z^2$ that lies between the planes $x = 0$, $x = 1$, $z = 0$, and $z = 1$.

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6. 3.35/3.35 points | Previous Answers SCalcET7 16.6.049.MI.

Find the area of the surface.

The surface with parametric equations $x = u^2$, $y = uv$, $z = \frac{1}{2}v^2$, $0 \le u \le 2$, $0 \le v \le 1$.

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