Web**Assign**

Hw 17 (14.7): Maximum and Minimum Values (Homework)

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Current Score: 20 / 20

Due: Thursday, October 4 2012 11:00 PM EDT

1. 5/5 points | Previous Answers

SCalcET7 14.7.032.

Find the absolute maximum and minimum values of f on the set D.

$$f(x, y) = 4x + 6y - x^2 - y^2 + 7,$$

$$D = \{(x, y) \mid 0 \le x \le 4, 0 \le y \le 5\}$$



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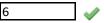
2. 5/5 points | Previous Answers

SCalcET7 14.7.034.

Find the absolute maximum and minimum values of f on the set D.

$$f(x, y) = xy^2 + 4$$
, $D = \{(x, y) \mid x \ge 0, y \ge 0, x^2 + y^2 \le 3\}$

absolute maximum value



absolute minimum value

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3. 5/5 points | Previous Answers

SCalcET7 14.7.039.MI.

Find the shortest distance, d, from the point (3, 0, -2) to the plane x + y + z = 2. d = 2



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4. 5/5 points | Previous Answers

SCalcET7 14.7.042.

Find the points on the surface $y^2 = 4 + xz$ that are closest to the origin.



(x, y, z) = Flash Player You can get

Flash Player version 10 or higher is required for this question (Smaller *y*-value) You can get Flash Player free from Adobe's website.





 $(x,\,y,\,z)\,=\,\bigg($

Flash Player version 10 or higher is required for this question (larger *y*-value) You can <u>get Flash Player free from Adobe's website</u>.



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