

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

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MA 261 Fall 2012, section 121, Fall 2012

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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 .

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

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

absolute maximum value ✓absolute minimum value ✓**Need Help?**[Read It](#)[Chat About It](#)**2.** 5/5 points | [Previous Answers](#)

SCalcET7 14.7.034.

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

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

absolute maximum value ✓absolute minimum value ✓**Need Help?**[Read It](#)[Chat About It](#)**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 $x + y + z = 2$. $d =$ 

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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 version 10 or higher is required for this question. (smaller y-value)
You can [get Flash Player free from Adobe's website.](#)
✓)



$(x, y, z) = ($ Flash Player version 10 or higher is required for this question. (larger y-value)
You can [get Flash Player free from Adobe's website.](#)
✓)

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