Web**Assign Hw 16 (14.7): Maximum and Minimum Values (Homework)**

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

Current Score: 20 / 20 Due: Thursday, September 27 2012 11:00 PM EDT

SCalcET7 14.7.011.MI.

1. 4/4 points | Previous Answers

Need Help?

Find the local maximum and minimum values and saddle point(s) of the function. If you have threedimensional graphing software, graph the function with a domain and viewpoint that reveal all the important aspects of the function. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.)

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$$f(x, y) = x^3 - 108xy + 216y^3$$
local maximum value(s)
local minimum value(s)
saddle point(s) $(x, y, f) =$

Master It

2. 4/4 points | Previous Answers

SCalcET7 14.7.012.

Find the local maximum and minimum values and saddle point(s) of the function. If you have threedimensional graphing software, graph the function with a domain and viewpoint that reveal all the important aspects of the function. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.)

$$f(x, y) = xy + \frac{64}{x} + \frac{64}{y}$$



local maximum value(s)

Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.





local minimum value(s)

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saddle point(s) (x, y, f) =

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3. 4/4 points | Previous Answers

SCalcET7 14.7.014.

Find the local maximum and minimum values and saddle point(s) of the function. If you have threedimensional graphing software, graph the function with a domain and viewpoint that reveal all the important aspects of the function. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.)

$$f(x, y) = 3y \cos x, \quad 0 \le x \le 2\pi$$



local maximum value(s)

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local minimum value(s)

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saddle point(s)

(x, y, f) =

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4. 4/4 points | Previous Answers

SCalcET7 14.7.015.

Find the local maximum and minimum values and saddle point(s) of the function. If you have threedimensional graphing software, graph the function with a domain and viewpoint that reveal all the important aspects of the function. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.)

$$f(x, y) = 9(x^2 + y^2)e^{y^2 - x^2}$$

local maximum value(s)

V

local minimum value(s)

1

saddle point(s) (x, y, f) =

 \checkmark

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5. 4/4 points | Previous Answers

SCalcET7 14.7.016.

Find the local maximum and minimum values and saddle point(s) of the function. If you have threedimensional graphing software, graph the function with a domain and viewpoint that reveal all the important aspects of the function. (Enter your answers as a comma-separated list. If an answer does not exist, enter DNE.)

$$f(x, y) = 9e^{y}(y^2 - x^2)$$

local maximum value(s)

 \checkmark

local minimum value(s)

 \checkmark

saddle point(s)

(x, y, f) =

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