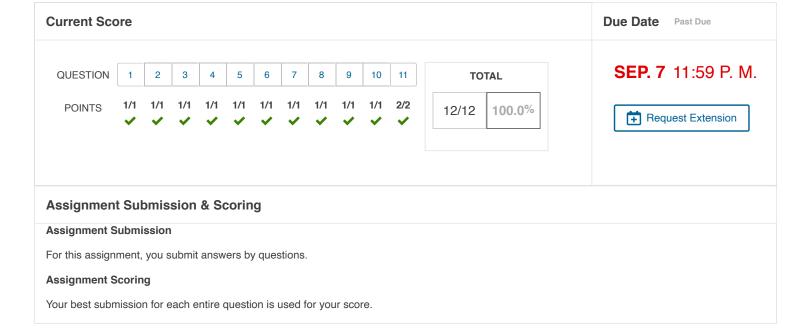


Curvas y Superficies de Nivel (Homework)





The due date for this assignment has passed.

Your work can be viewed below, but no changes can be made.

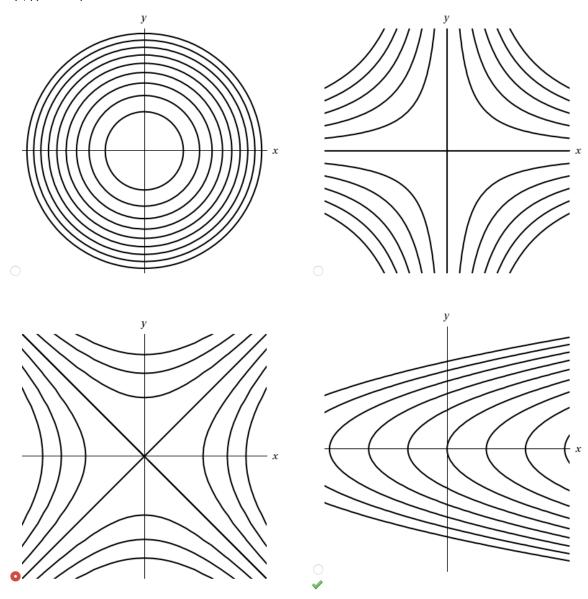
Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may not grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.





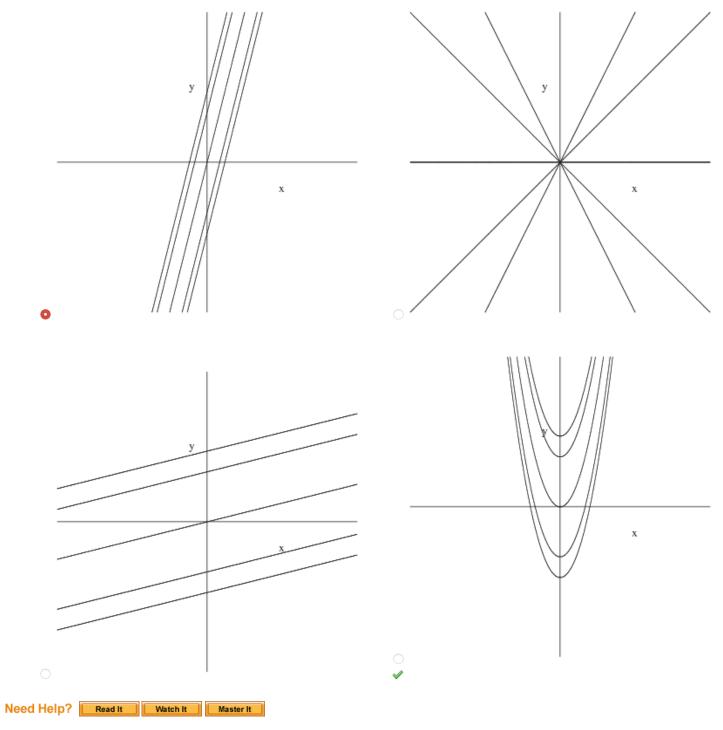
Draw a contour map of the function showing several level curves.

$$f(x,\,y)=x^2-y^2$$



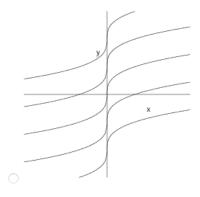
 $\label{eq:decomposition} \mbox{Draw a contour map of the function showing several level curves.}$

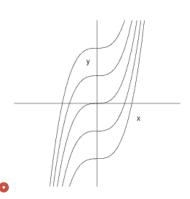
$$f(x, y) = (y - 4x)^2$$

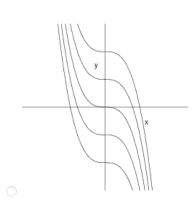


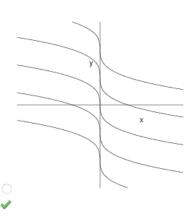
 $\label{eq:decomposition} \mbox{Draw a contour map of the function showing several level curves.}$

$$f(x, y) = x^3 - 2y$$





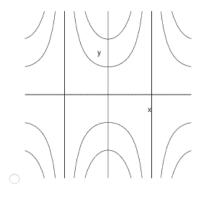


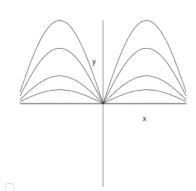


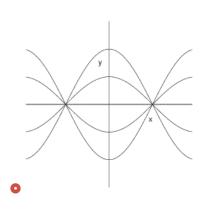
Need Help? Read It

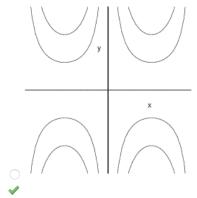
 $\label{eq:decomposition} \mbox{Draw a contour map of the function showing several level curves.}$

 $f(x, y) = y \sec(7x)$



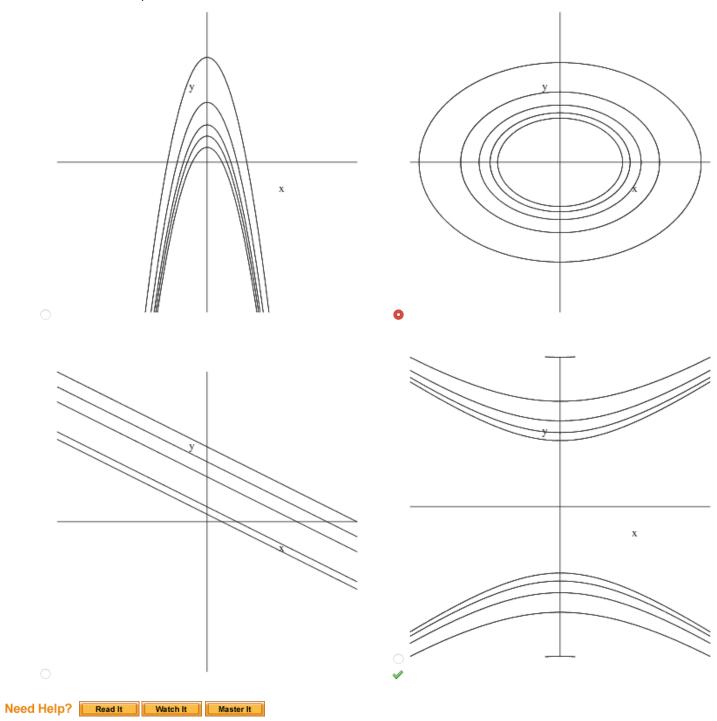






A thin metal plate, located in the xy-plane, has temperature T(x, y) at the point (x, y). Sketch some level curves (isothermals) if the temperature function is given by

$$T(x, y) = \frac{200}{1 + x^2 + 2y^2}.$$



Describe the level surfaces of the function.

$$f(x, y, z) = x^2 + 3y^2 + 2z^2$$

The level surfaces are a family of parallel planes.

• The level surfaces are a family of ellipsoids.

The level surfaces are a family of hyperboloids.

 The level surfaces are a family of hyperbolic cylinders.

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Describe the level surfaces of the function.

$$f(x, y, z) = x^2 - y^2 - z^2$$

The level surfaces are a family of parallel planes.

The level surfaces are a family of ellipsoids.

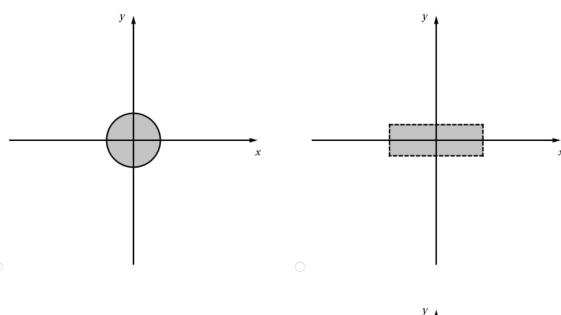
The level surfaces are a family of hyperbolic

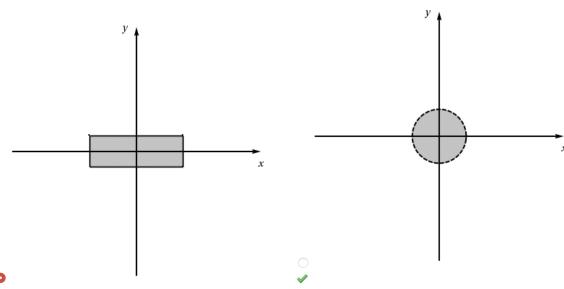
• The level surfaces are a family of hyperboloids.

Need Help? Read It Watch It

Find and sketch the domain of the function.

$$f(x, y) = \sqrt{9 - x^2} - \sqrt{1 - y^2}$$

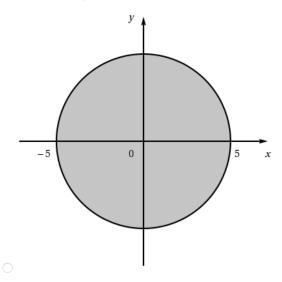


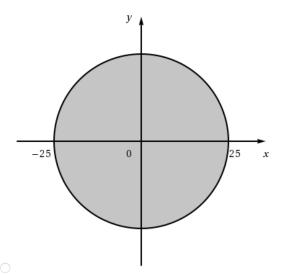


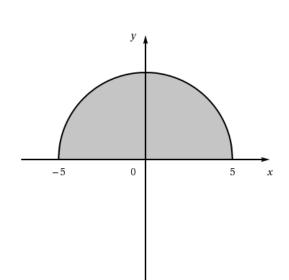
Need Help? Read It Watch It

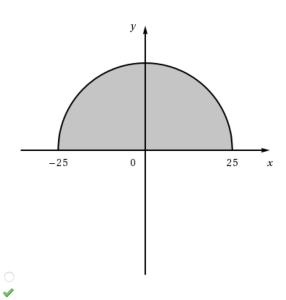
Find and sketch the domain of the function.

$$f(x, y) = \sqrt{y} + \sqrt{25 - x^2 - y^2}$$



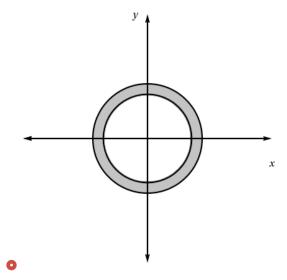


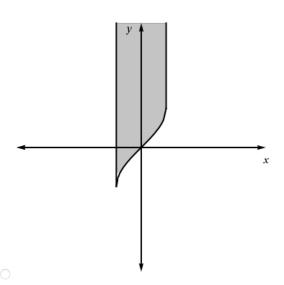


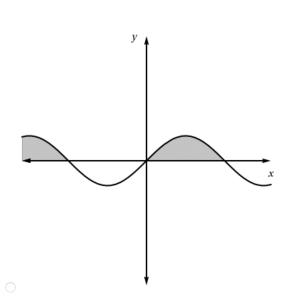


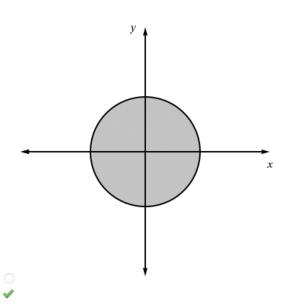
Find and sketch the domain of the function.

$$f(x, y) = \arcsin(x^2 + y^2 - 4)$$









Find the domain of the function.

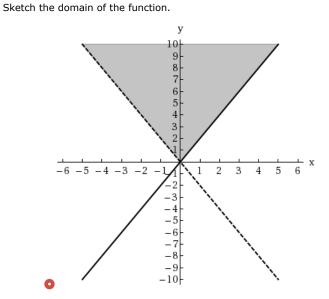
$$f(x, y) = \sqrt{y - 2x} \ln(y + 2x)$$

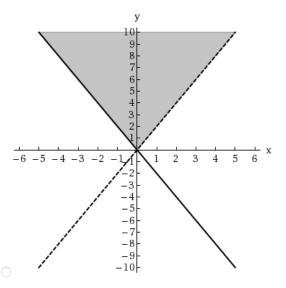
 $-y < 2x \le y, x > 2x$

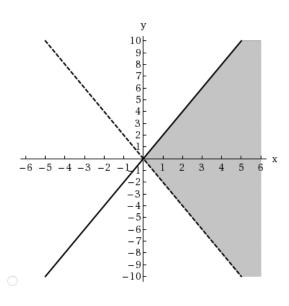
x > 0, y > 0

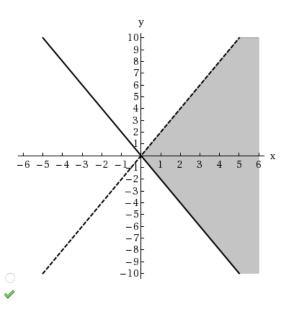
x > 0, y > 2x

x < 0, y > 2









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Extension Request

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