LESSON G MA 26100-FALL 2023 Dr. Hood



SUPPLEMENTAL INSTRUCTION

SI Leader	Session 1	Session 2	Session 3	Office hour
Anna Szakats	Sun @ 4:30 PM Academic Success Center	Tue @ 4:30 PM UNIV 001	Thu @ 4:30 PM UNIV 001	Thu @ 12:00 PM WILY C215 + Zoom
Jorge Mendoza	Sun @ 6:30 PM Academic Success Center	Mon @ 6:30 PM WALC 3122	Wed @ 6:30 PM WALC 3122	Wed @ 10:30 AM WILY C215 + Zoom



(Fall 18 Exam 1 #7) The level curves of

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

$$c^2 - acx + y^2 = y^2 + y^2 + 1$$

are:

- a) Hyperbolas
- b) Ellipses
- c) Sometime lines and sometimes ellipses
- d) Circles







 $-2cx = y^2 + 1 - c^2$

PLOTTING SURFACES

Sketch the level curves and surface of z = cos(xy)



PLOTTING SURFACES

Sketch the level curves and surface of z = sin(xy)





PLOTTING SURFACES

Sketch the level curves and surface of $z = \cos(x^2 + y^2)$





POLL 2

(Spring 22 Exam 1 #5) Suppose z = f(x, y)has level curves shown here. The surface formed by the graph of f could be which of the following?

- a) Hyperbolic paraboloid
- b) Hyperboloid of 2 sheets
- c) Elliptic paraboloid
- d) Elliptic cone



MUDDIEST POINT

What was the muddiest point from today's lecture?

- a) Function of two variables
- b) Level curves
- c) Plotting surfaces
- d) None understood everything today