

I will try to write things down.

Please just ask me to slow down or repeat.

Will try to upload my whiteboards.

Will also upload handouts.

Office hours:

4-5pm on Tuesdays,

1-2pm on Wednesdays

(Same room as section)

and on Post.

PMAs 9.11.6 when via in person.

Bi-weekly quizzes (NOT impacting your grade)
(Every 7 weeks)

Thursdays, starting next week (1/27).

Write an equation describing the set of points on a circle of radius 5 centered at the point $(1, -6)$.

$$(x-1)^2 + (y+6)^2 = 25$$

Given two points x_1, y_1 and x_2, y_2 in the plane, distance between them is

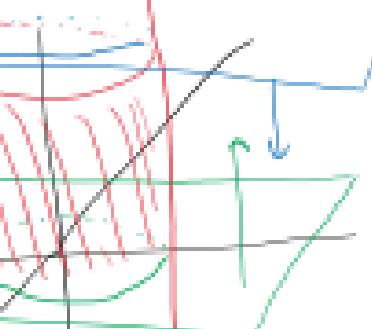
$$\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$$(x-1)^2 + (y+6)^2 = 25$$

Need to be careful about seeing that these are equivalent!

Equation of circle:

$$x^2 + y^2 = 1$$



Solve the equation for y :

$$y^2 = 1 - x^2$$

$$y = \sqrt{1 - x^2}$$

Think of this as a function

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

Function has a graph:

Set of all points of the form

$(x, f(x))$, where x is in domain of f .

Write down a set of equations (and inequalities)

describing the set of points on the surface of a cylinder w/ radius 2 and height 4, w/ base on the $x-y$ plane, circle centered at origin.

x, y, z coordinates

Write down a set of inequalities

describing the set of points in the interior of this triangle:

equilateral w/ side length 1