Inspiring Greatness

ISD

INDEPENDENCE SCHOOL DISTRICT

Math Virtual Learning

College Algebra

May 8, 2020

College Algebra
Lesson: May 8, 2020

Objective/Learning Target: Students will able to Systems of equations involving conics.

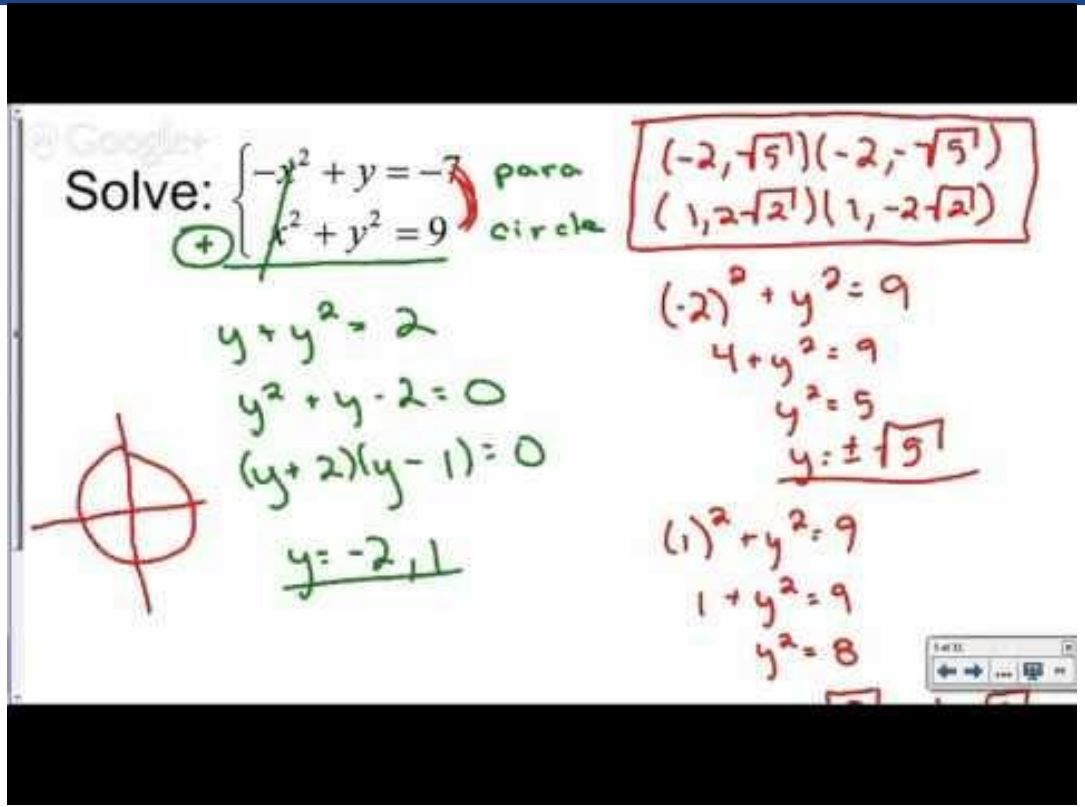
Warm Up Activity:

Click the link below and practice solving linear systems of equations.

Linear Systems

Lesson:

Watch the video over conic systems of equations. Watch until 12:00 or longer for more examples.We encourage you to have your own sheet of paper out and work along with the video.



Practice:

Work through the practice problems at the links

Practice 1 - practice is on the right side of page.

Additional Practice: From MCC 2019 Review

47. Find the points of intersection of the graphs of the two equations.

$$x^2 + y^2 = 9 \qquad x - y = -3$$

a. (-3, 0) , (0, 3)

b. (-9, 0), (9, 0)

c. They do not intersect

d. (-3, 0) , (3, 0)

Additional Practice: MCC Review Version 2

31. Determine how many solutions the system has and solve:

$$\begin{cases} x^2 + 2y = 6 \\ 2x + y = 3 \end{cases}$$

a. (4, -5) b. (2,1) c. (0,3) d. (0,3) and (4, -5)

Additional Practice: MCC Review Version 1

40. Find the point(s) of intersection for the following system of equations: $\begin{cases} y - 2x = 5 \\ x^2 + y^2 = 85 \end{cases}$

a. $(-6, -7)$ & $(2, 9)$
b. $(6, -7)$ & $(-2, 9)$
c. No Solution
d. $(3.1, 11.2)$ & $(-7.1, -9.2)$

Additional Practice Answers:

47) A

31) D

40) A