

Conesione punto 3 pb. 1

$$xy - z = 0$$

$$f(x, y) = 0$$

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

$$f(x, y) + k g(x, y) = 0$$

$$g(x, y) = x^2 - 2x + y - 1$$

Eq. del ejercicio

$$xy - z + k(x^2 - 2x + y - 1) = 0$$

$$xy - 2 + (x^2 - 2x + y - 1) = 0$$

$$k = 1$$

$$y(x+1) + \underbrace{(x^2 - 2x - 3)}_{(x+1)(x-3)} = 0$$

$$y(x+1) + (x-3)(x+1) = 0$$

$$(y + x - 3)(x+1) = 0$$

$$y = -x + 3$$

$$x = -1$$

Q.6

$$\begin{cases} z^2 = (ax + by + c)^2 \\ z^2 = 4x^2 + 4y^2 \end{cases}$$

Sol

$$x = y^2 - 1$$

$$a^2 = 4$$

$$b = 0$$

$$c = \dots$$

