

$$(x, y) = (-1, -3)$$

$$y = \pm \sqrt{x^2 + C_4}$$

$$-3 = \pm \sqrt{(-1)^2 + C_4}$$

$$-3 = -\sqrt{1 + C_4}$$

$$3 = \sqrt{1 + C_4}$$

$$3^2 = 1 + C_4$$

$$C_4 = 3^2 - 1 = 8$$

$$y = -\sqrt{x^2 + 8}$$