

Solve the equation $z^2 = -1$ using $z = (x, y)$ and the basic definitions.

a.

$$z = (0, 2), (0, -2)$$

b.

$$z = (1, 0), (-1, 0)$$

c.

$$z = (4, 0), (-1, 0)$$

d.

$$z = (0, 1), (0, -1)$$