

1.5.30

EE24BTECH11056 - S.Kavya Anvitha

Question:

If the coordinates of one end of a diameter of a circle are $(2, 3)$ and the coordinates of its centre are $(-2, 5)$, then the coordinates of the other end of the diameter are:

Solution:

Variable	Description
A, B	End points of diameter
O	centre of the circle

TABLE 0: Variables Used

$$A = (x, y) \quad (0.1)$$

$$B = (2, 3) \quad (0.2)$$

$$O = (-2, 5) \quad (0.3)$$

$$O = \frac{A + B}{2} \quad (0.4)$$

$$A = 2 * O - B \quad (0.5)$$

$$A = 2(-2, 5) - (2, 3) \quad (0.6)$$

$$A = (-6, 7) \quad (0.7)$$

$$(0.8)$$

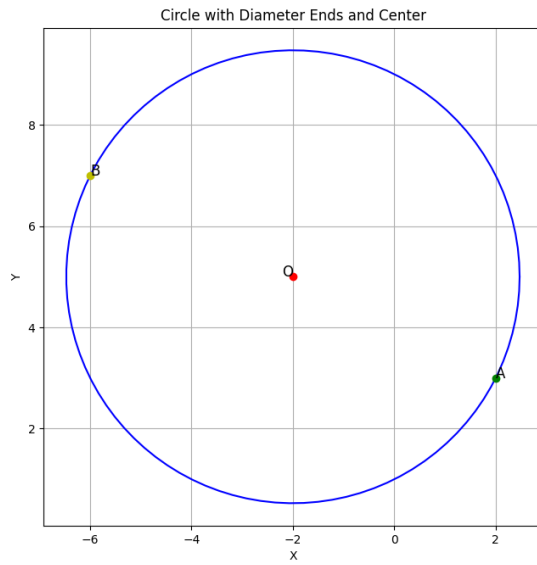


Fig. 0.1: circle