

# 1.5.30

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## 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

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

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

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

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

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

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

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

$$(0.8)$$

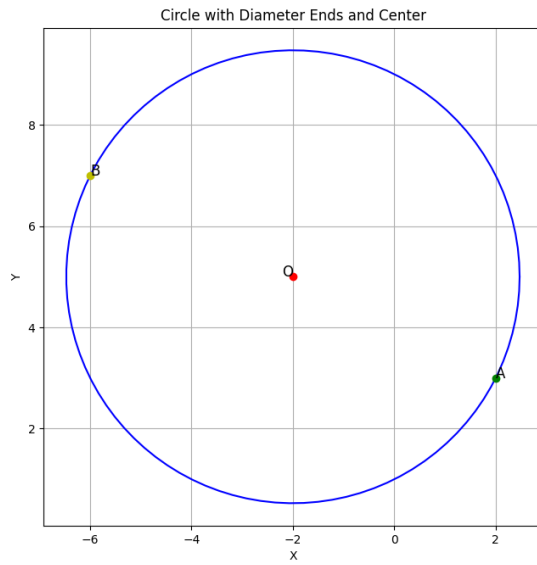


Fig. 0.1: circle