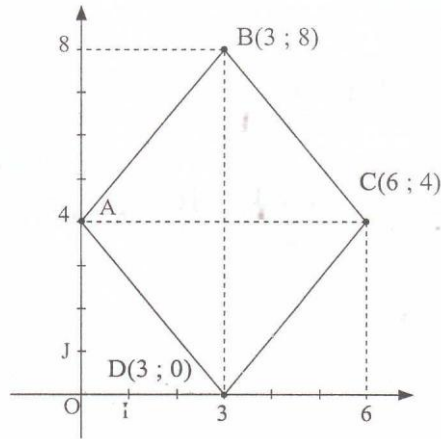


تمرین 11



أحسب أطوال أضلاع الرباعي ABCD وأحدد طبيعته

$$AB = \sqrt{(x_B - x_A)^2 + (y_B - y_A)^2}$$

$$= \sqrt{(3 - 0)^2 + (8 - 4)^2}$$

$$= \sqrt{(3)^2 + (4)^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$\boxed{AB = 5}$$

$$BC = \sqrt{(x_C - x_B)^2 + (y_C - y_B)^2}$$

$$= \sqrt{(6 - 3)^2 + (4 - 8)^2}$$

$$= \sqrt{3^2 + (-4)^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$\boxed{BC = 5}$$

$$CD = \sqrt{(x_D - x_C)^2 + (y_D - y_C)^2}$$

$$= \sqrt{(3 - 6)^2 + (0 - 4)^2}$$

$$= \sqrt{(-3)^2 + (-4)^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$\boxed{CD = 5}$$

$$DA = \sqrt{(x_A - x_D)^2 + (y_A - y_D)^2}$$

$$= \sqrt{(0 - 3)^2 + (4 - 0)^2}$$

$$= \sqrt{(-3)^2 + 4^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$\boxed{DA = 5}$$

ومنه فإن  $AB = BC = CD = DA = 5$

إذن : ABCD معين .