

تمرين 9

أحسب OC و AB و CD

$$\begin{aligned}OC &= \sqrt{3^2 + 1^2} \\ &= \sqrt{9 + 1}\end{aligned}$$

$$\boxed{OC = \sqrt{10}}$$

لدينا $\vec{OC}(3; 1)$ إذن:

لدينا : $\vec{AB}(2; 3)$

$$AB = \sqrt{2^2 + 3^2} = \sqrt{4 + 9}$$

$$\boxed{AB = \sqrt{13}}$$

لدينا : $D(-1; 7)$ $C(2; 3)$

إذن :

$$\begin{aligned}CD &= \sqrt{(x_D - x_C)^2 + (y_D - y_C)^2} \\ &= \sqrt{(-1 - 2)^2 + (7 - 3)^2} \\ &= \sqrt{(-3)^2 + (4)^2} \\ &= \sqrt{9 + 16}\end{aligned}$$

$$CD = \sqrt{25}$$

$$\boxed{CD = 5}$$