

9. Find the distance $d(P_1, P_2)$ between the points $P_1=(4,1)$ and $P_2=(6,3)$

3

$\sqrt{10}$

$2\sqrt{2}$

$\sqrt{11}$

Solution

$$\text{The distance} = \sqrt{(3-1)^2 + (6-4)^2}$$

$$\text{The distance} = \sqrt{(2)^2 + (2)^2}$$

$$= \sqrt{4+4}$$

$$= 2\sqrt{2}$$