

4. Find the distance $d(P_2, P_1)$ between the points $P_2=(5,6)$ and $P_1=(3,1)$

$$\sqrt{30}$$

$$\sqrt{31}$$

$$\sqrt{29}$$

$$4\sqrt{2}$$

Solution

$$\text{The distance} = \sqrt{(1-6)^2 + (3-5)^2}$$

$$\text{The distance} = \sqrt{(-5)^2 + (-2)^2}$$

$$= \sqrt{25+4}$$

$$= \sqrt{29}$$