

5. Find the distance $d(P_1, P_2)$ between the points $P_1=(0,4)$ and $P_2=(2,-1)$

$$\sqrt{30}$$

$$\sqrt{31}$$

$$\sqrt{29}$$

$$4\sqrt{2}$$

Solution

$$\text{The distance} = \sqrt{(-1-4)^2 + (2-0)^2}$$

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

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

$$= \sqrt{29}$$