

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

$\sqrt{3}$

2

$\sqrt{2}$

$\sqrt{5}$

Solution

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

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

$$= \sqrt{1+1}$$

$$= \sqrt{2}$$