

4. Find the distance $d(P_2, P_1)$ between the points $P_2=(6,-3)$ and $P_1=(-1,2)$

$$5\sqrt{3}$$

$$2\sqrt{19}$$

$$\sqrt{74}$$

$$\sqrt{77}$$

Solution

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

$$\text{The distance} = \sqrt{(5)^2 + (-7)^2}$$

$$= \sqrt{25 + 49}$$

$$= \sqrt{74}$$