

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

$$\sqrt{33}$$

$$\sqrt{34}$$

$$4\sqrt{2}$$

$$\sqrt{35}$$

Solution

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

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

$$= \sqrt{16+16}$$

$$= 4\sqrt{2}$$