

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

$$\sqrt{30}$$

$$\sqrt{31}$$

$$\sqrt{29}$$

$$4\sqrt{2}$$

**Solution**

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

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

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

$$= \sqrt{29}$$