

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

$$3\sqrt{3}$$

$$2\sqrt{7}$$

$$\sqrt{26}$$

$$\sqrt{29}$$

Solution

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

$$\text{The distance} = \sqrt{(-1)^2 + (5)^2}$$

$$= \sqrt{1+25}$$

$$= \sqrt{26}$$