

7. Find the distance $d(P, S)$ between the points $P=(2,-1)$ and $S=(-3,1)$

$$\sqrt{30}$$

$$\sqrt{31}$$

$$\sqrt{29}$$

$$4\sqrt{2}$$

Solution

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

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

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

$$= \sqrt{29}$$