

4. Find the distance $d(A, S)$ between the points $A=(0,4)$ and $S=(-1,-3)$

$$\sqrt{51}$$

$$2\sqrt{13}$$

$$5\sqrt{2}$$

$$\sqrt{53}$$

Solution

$$\text{The distance} = \sqrt{(-3-4)^2 + (-1-0)^2}$$

$$\text{The distance} = \sqrt{(-7)^2 + (-1)^2}$$

$$= \sqrt{49+1}$$

$$= 5\sqrt{2}$$