

4. Find the distance $d(J, R)$ between the points $J=(4,2)$ and $R=(-1,3)$

$$3\sqrt{3}$$

$$2\sqrt{7}$$

$$\sqrt{26}$$

$$\sqrt{29}$$

Solution

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

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

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

$$= \sqrt{26}$$