

6. Find the distance $d(I, J)$ between the points $I=(2,6)$ and $J=(0,-3)$

$$\sqrt{86}$$

$$\sqrt{87}$$

$$\sqrt{85}$$

$$2\sqrt{22}$$

Solution

$$\text{The distance} = \sqrt{(-3-6)^2 + (0-2)^2}$$

$$\text{The distance} = \sqrt{(-9)^2 + (-2)^2}$$

$$= \sqrt{81+4}$$

$$= \sqrt{85}$$