

3. Find the distance $d(G, Q)$ between the points $G=(5,0)$ and $Q=(-1,6)$

$$\sqrt{73}$$

$$\sqrt{74}$$

$$6\sqrt{2}$$

$$5\sqrt{3}$$

Solution

$$\text{The distance} = \sqrt{(6-0)^2 + (-1-5)^2}$$

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

$$= \sqrt{36+36}$$

$$= 6\sqrt{2}$$