

8. Find the distance $d(P_2, P_1)$ between the points $P_2 = (-2, -1)$ and $P_1 = (6, 2)$

$$\sqrt{74}$$

$$5\sqrt{3}$$

$$\sqrt{73}$$

$$2\sqrt{19}$$

Solution

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

$$\text{The distance} = \sqrt{(3)^2 + (8)^2}$$

$$= \sqrt{9 + 64}$$

$$= \sqrt{73}$$