2. Find the distance $d(P2, P1)$ between the points $P2=(1,0)$ and $P1=(-2,6)$

$\sqrt{46}$

$\sqrt{47}$

$3\sqrt{5}$

$4\sqrt{3}$

**Solution**

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

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

$= \sqrt{36+9}$

$= 3\sqrt{5}$