4. Find the distance d(P2, P1) between the points P2=(3,1) and P1=(-3,-2)

$\sqrt{46}$

$\sqrt{47}$

$3\sqrt{5}$

$4\sqrt{3}$

Solution

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

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

$= \sqrt{9+36}$

$= 3\sqrt{5}$