5. Find the distance d(P1, P2) between the points P1=(3,4) and P2=(−1,5)

$3\sqrt{2}$

$\sqrt{19}$

$\sqrt{17}$

$2\sqrt{5}$

Solution

The distance $= \sqrt{(5-4)^2+(-1-3)^2}$

The distance $= \sqrt{(1)^2+(-4)^2}$

$= \sqrt{1+16}$

$= \sqrt{17}$