2. Find the distance d(P1, P2) between the points P1=(5,-3) and P2=(-1,6)

$\sqrt{118}$

$\sqrt{119}$

$3\sqrt{13}$

$2\sqrt{30}$

Solution

The distance $= \sqrt{(6--3)^2+(-1-5)^2}$

The distance $= \sqrt{(9)^2+(-6)^2}$

$= \sqrt{81+36}$

$= 3\sqrt{13}$