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

$\sqrt{129}$

$\sqrt{130}$

$8\sqrt{2}$

$\sqrt{131}$

Solution

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

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

$= \sqrt{64+64}$

$= 8\sqrt{2}$