8. Find the distance d(P2, P1) between the points P2=(2,-2) and P1=(-3,0)

$\sqrt{30}$

$\sqrt{31}$

$\sqrt{29}$

$4\sqrt{2}$

Solution

The distance $= \sqrt{(0--2)^2+(-3-2)^2}$

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

$= \sqrt{4+25}$

$= \sqrt{29}$