8. Find the distance d(Y, V) between the points Y=(4,-3) and V=(1,0)

$\sqrt{19}$

$2\sqrt{5}$

$3\sqrt{2}$

$\sqrt{21}$

Solution

The distance $= \sqrt{(0--3)^2+(1-4)^2}$

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

$= \sqrt{9+9}$

$= 3\sqrt{2}$