## 5G Length of Line Segments

1. Find the distance between the coordinates $(2,3)$ and $(5,7)$
2. The straight line $l_{1}$ with equation $4 x-y=0$ and the straight line $l_{2} 2 x+3 y-21=0$ intersect at point $A$.
a) Work out the coordinates of $A$.
b) Work out the area of triangle $A O B$, where $O$ is the origin and $B$ is the point where $l_{2}$ meets the $x$-axis.
