**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 $4x-y=0$ and the straight line $l\_{2}$ $2x+3y-21=0$ intersect at point A.
3. Work out the coordinates of A.
4. Work out the area of triangle AOB, where O is the origin and B is the point where $l\_{2}$ meets the x-axis.