## Question

The straight lines $L_{1}$ and $L_{2}$ have respective equations

$$
4 x+2 y=a \quad \text { and } \quad 5 x+4 y=b
$$

It is given that $L_{1}$ and $L_{2}$ meet at the point $P$.

Express $a$ in terms of $b$, given further that $P$ lies in the second quadrant and is equidistant from the coordinate axes.

