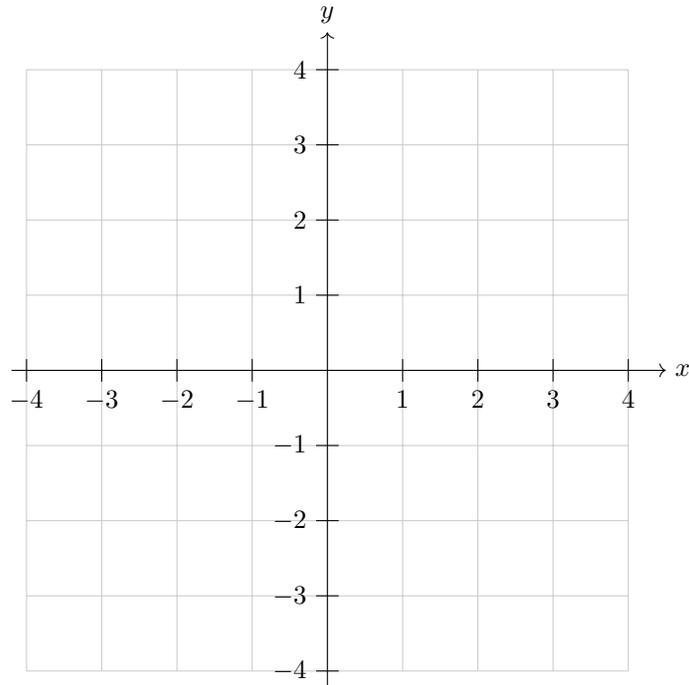**1.**   [4 *points*]

Sketch the lines $y = \frac{1}{3}x + 1$ and $2x + 3y = 4$. Find their axes intercepts and the coordinates of the point of intersection.

2.   [3 *points*]

Find the equation of the perpendicular bisector of a line segment with endpoints $(-2, 1)$ and $(6, -3)$.

3. [5 *points*]

Find the equation of a line which passes through $(2, 2)$ and intersects the negative x-axis at A and the positive y at B so that the area of AOB is 1.