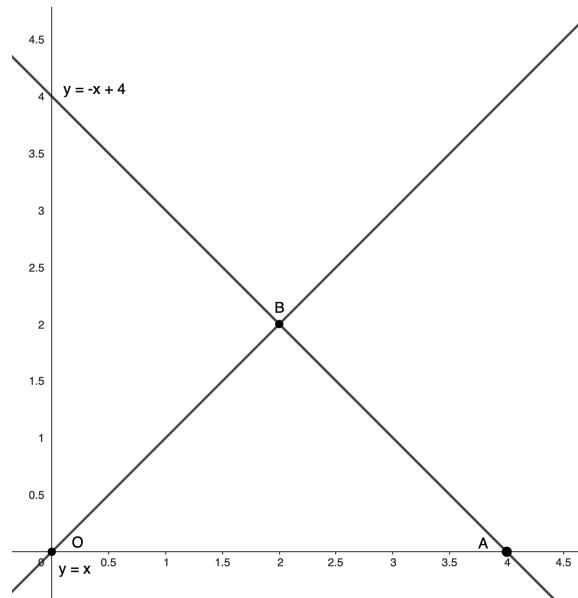


The intersection of $y = -x + 4$ and the x-axis is marked as point A , and the intersection of $y = -x + 4$ and $y = -x$ is marked as point B . Additionally, the origin is marked as point O . If $y = ax$ splits triangle OAB into two triangles with equal areas, find the value of a . ¹



¹Wayoh Kohnodai Girls' High School, Chiba