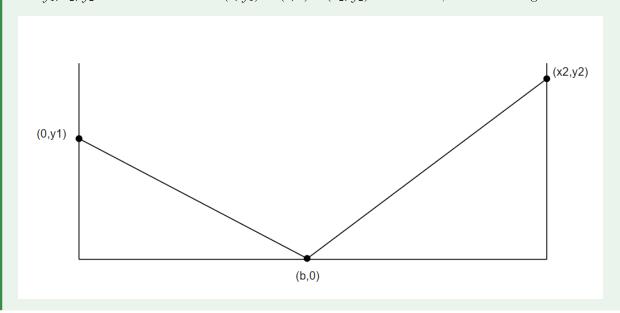
Bonus Question

Claim 0.0.1

Consider an arbitrary set of points $(0,y_1),$ (b,0), and (x_2,y_2) in \mathbb{R}^2 where $y_1,x_2,y_2,b\in\mathbb{R}_{>0}$.

Fix y_1, x_2, y_2 . If the distance from $(0, y_1)$ to (b, 0) is (x_2, y_2) is minimum, then the triangles are similar.



Solution: