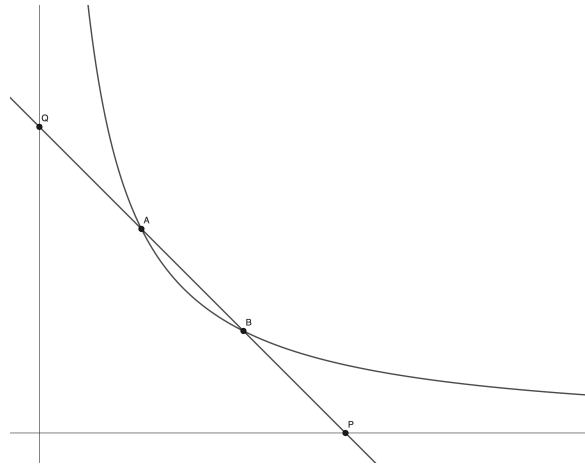


As shown in the figure below, the two points of intersection between lines $y = -x + 9$ and $y = \frac{a}{x}$ ($a > 0$) is marked as A and B . The intersection of $y = -x + 9$ with the x-axis and the y-axis are also marked as P and Q , with $QA = AB = BP$. Given this information, find the value of a .¹



¹Yamagata Prefecture