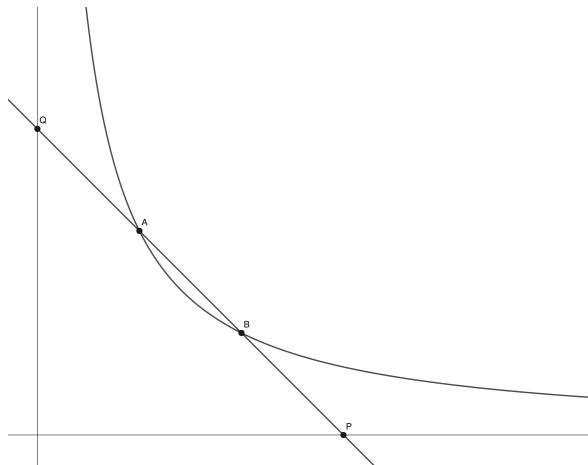


As shown in the figure below, the two points of intersection between lines  $y = -x + 9$  and  $y = \frac{a}{x} (a > 0)$  are marked as  $A$  and  $B$ . The intersection of  $y = -x + 9$  with the x-axis and the y-axis are also marked as  $P$  and  $Q$ , with  $QA = AB = BP$ . Given this information,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



---

<sup>1</sup>Yamagata Prefecture