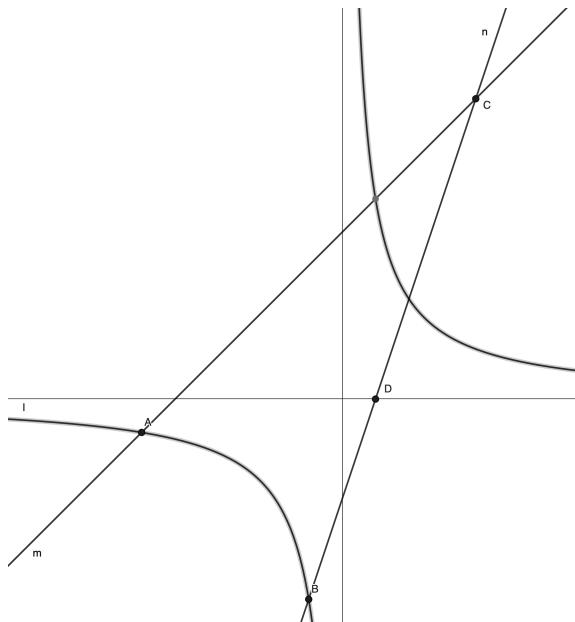


In the figure below, the equations of the three functions are: $l : y = \frac{a}{x}$, $m : y = x + 5$, $n : y = 3x - 3$. l 's intersection with m at $x = -6$ is marked as A , l 's intersection with n at $y = -6$ is marked as B , the intersection of m and n is marked as C , and the intersection of n and the x-axis is marked as D . Given this information, answer the questions below.¹

(1): Find the value of a .

(2): Find the coordinates of C .

(3): Let E be the point of intersection between AB and the line that passes through D and is parallel to m . Find the coordinates of E .



¹Kochi Prefecture