

74. The line has x -intercept at $x = e^0 = 1$. When $x = e^a$, $y = \ln e^a = a$. Therefore, using the point-

slope equation, we have $y - 0 = \frac{a - 0}{e^a - 1}(x - 1) \Leftrightarrow y = \frac{a}{e^a - 1}(x - 1)$.