a) $k_b = ?$

$B_o = A_t \cdot \overline{IV}^{t}_{k_b} \longrightarrow \boxed{\overline{IV}^{t}_{k_b} = \frac{B_o}{A_t}}$

$\overline{IV}^{10}_{k_b} = \frac{8000}{1600}$

$\overline{IV}^{10}_{k_b} = 5$

$y_1 = k_{b_1} = 15\%$ $\quad x_1 = \overline{IV}^{10}_{15} = 5{,}019$

$x = 5$

$y_2 = k_{b_2} = 16\%$ $\quad x_2 = \overline{IV}^{10}_{16} = 4{,}833$

$$y(k_b) = y_1 + \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$$

$$y(k_b) = 15 + \frac{16 - 15}{4{,}833 - 5{,}019}(5 - 5{,}019)$$

$y(k_b) = 15{,}10\%$

b) $i = ?$

$A_t = N \cdot \overline{V}^{t}_{i} \longrightarrow \boxed{\overline{V}^{t}_{i} = \frac{A_t}{N}}$

$\overline{V}^{10}_{i} = \frac{1600}{10000}$

$\overline{V}^{10}_{i} = 0{,}16$

$y_1 = i_1 = 9\%$ $\quad x_1 = \overline{V}^{10}_{9} = 0{,}156$

$x = 0{,}16$

$y_2 = i_2 = 10\%$ $\quad x_2 = \overline{V}^{10}_{10} = 0{,}163$

$$y(i) = 9 + \frac{10 - 9}{0{,}163 - 0{,}156}(0{,}16 - 0{,}156)$$

$y(i) = 9{,}57\%$