Sulong.

(B3) (continued from the earlier page)

Now, we note the interesting fact below:

By our intelligent definition of K_i and m_i, (and subsequently, x_i and y_i)

(2) $\xrightarrow{\text{implies}}$ $$2^{m_i} = \frac{K_i}{(K_i - m_i)}.$$

(5) $\xrightarrow{\text{implies}}$ $$\frac{y_i}{x_i} = 2^{m_i}$$

(6) $\xrightarrow{\text{implies}}$ $$\frac{\log_2 y_i}{\log_2 x_i} = \frac{K_i}{(K_i - m_i)}$$

The interesting fact (based on the above) is:

~~By (2)~~ $$\frac{y_i}{x_i} = 2^{m_i} = \frac{K_i}{(K_i - m_i)} = \frac{\log_2 y_i}{\log_2 x_i}$$

from (5) from (2) from (6)

That is (look at the endpoints for this last equality), we get:

$$\frac{y_i}{x_i} = \frac{\log_2 y_i}{\log_2 x_i} \quad \text{——— (7)}$$