

$$\textcircled{A} \quad \overset{y_2}{24.20062} = \overset{y_1}{24.23996} r \left( 1 - \frac{24.23996}{K} \right)$$

$$\textcircled{B} \quad \overset{y_4}{24.07902} = \overset{y_3}{26.52723} r \left( 1 - \frac{26.52723}{K} \right)$$

$$\textcircled{B} \Rightarrow \frac{24.07902}{26.52723} \times \frac{K}{K - 26.52723} = r$$

Sub in to  $\textcircled{A}$

~~$$24.20062 = 0.90771 \left( \frac{K}{K - 26.52723} \right) \left( 24.23996 - \frac{24.23996}{K} \right)$$~~

$$24.20062 = \left( \frac{0.90771 K}{K - 26.52723} \right) \left( 24.23996 \left( 1 - \frac{24.23996}{K} \right) \right)$$

$$\Rightarrow 0.99838 = 0.90771 \left( \frac{K}{K - 26.52723} \right) \left( \frac{K - 24.23996}{K} \right)$$

$$\Rightarrow 1.09989 = \frac{K - 24.23996}{K - 26.52723}$$

$$\Rightarrow 1.09989(K - 26.52723) = K - 24.23996$$

$$\Rightarrow K(1.09989 - 1) = 1.09989 \times 26.52723 - 24.23996$$

$$\Rightarrow 0.09989 K = 4.93708$$

$$\Rightarrow K = 49.42517$$

$$\begin{aligned} \Rightarrow r &= 0.90771 \times \frac{49.42517}{49.42517 - 26.52723} \\ &= 1.96358 \end{aligned}$$