

$$at x = 0 (k(0) = 0)$$

$$h(x) = B(c -1) + \frac{\zeta}{2} x$$

0=A+B+0 => 1A=-B

$$h'(x) = B\left(\frac{V}{D}\right)e^{\left(\frac{K}{D}\right)x} + \frac{S}{V}$$

$$at x = L \left(Dh'(L) = xh(L) \right)$$

LHS:

$$Dh'(L) = D\left[B\left(\frac{V}{0}\right)e^{\left(\frac{V}{0}\right)L} + \frac{V}{2}\right] = VBe^{\left(\frac{V}{0}\right)L} + \frac{DS}{V}$$

RHJ:

$$\alpha h(L) = \alpha \left[\beta \left(\frac{\sqrt{6}}{6} \right) L - 1 \right] + \frac{3}{\sqrt{2}} (L) \right] + \alpha \beta h$$

$$= \alpha \beta \left(e^{\left(\frac{V}{0}\right)L} - 1 \right) + \alpha \frac{S}{V}L$$

$$B\left(Ve^{\binom{1}{6}L}-\alpha\left(e^{\binom{1}{6}L}-1\right)\right)=\cancel{x}\frac{S}{V}\left(\alpha L-D\right)$$

$$B = \frac{\frac{3}{v}(\alpha L - 1)}{ve^{\binom{v}{b}L} - \alpha(e^{\binom{v}{b}L})}$$

| 9 | $h(x) = \left(\frac{\frac{S}{V}(\alpha L - 0)}{\frac{V}{V}(\frac{V}{0})L} - \alpha \left(e^{\frac{V}{0}}\right)L}\right) \left(e^{\frac{V}{0}}\right)x + \frac{S}{V}(x)$ |
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