Residue THM

Monday, January 23, 2017

$$\frac{\partial^2 \eta}{\partial s^2} = \frac{\partial \eta}{\partial \tau} \Rightarrow \eta''(s) - s\eta(s) = 0.$$

$$= \frac{1 + e^{3/3} + e^{3/3} + e^{3/3} e^{-15/3}}{(1+7)^{3/3} (e^{3/5} - 1)}$$

$$= \frac{e^{3/5} + e^{3/5} (e^{-1/5} + e^{-3/5})^{1/5}}{(1+7)^{3/5} (e^{3/5} - e^{-3/5})}$$

$$=\frac{(H\lambda)_{r}(6_{r}+1)}{(H\lambda)_{r}(6_{r}+1)}+\frac{(H\lambda)_{r}(6_{r}-1)l2}{7\cdot 56_{l}}-\frac{1}{2}\frac{(\lambda+1)_{r}}{8}$$

poles for I.I. are the same.

S=0 2nd order root.

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Cool: Res[
$$e^{se}$$
], Res[e^{se}], Res[e^{se}].

Res (e^{se}], e^{se}] e^{se}] e^{se}]

$$= \lim_{s \to \infty} \left[\frac{1.5^{3}}{cinh(s)} + \frac{3}{2} \frac{JS}{cinhJS} e^{se} + \frac{1}{2} e^{se} + \frac{1}{2}$$