lördag 3 februari 2024

11:34

$$\frac{S}{(S+1)(S-2)} = \frac{A}{S+1}$$

$$\frac{S}{S+1}$$

$$\frac{S}{S+1}$$

$$S = S(A+B) + (A-2B)$$

$$A + B = 1$$
 $B = \frac{1}{3}$ $A = \frac{2}{3}$

$$A - 28 = 6$$
 $A = 28$

$$\frac{2}{3(s+1)} + \frac{1}{3(s-2)} \iff \frac{2}{7}e^{-t}\theta(t) + \frac{1}{3}e^{2t}\theta(t) + \frac{1}{3}e^{2t}\theta$$

$$2(s+1)$$

$$3(s+1)$$

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$$\Rightarrow \frac{2}{3} + \frac{1}{3} = \frac{1}{2}$$