lördag 3 februari 2024

11:32

$$\frac{8+5}{(S+3)^2} = \frac{A}{(S+3)^2} + \frac{B}{(S+3)^2}$$

$$S+5=A(S+3)+B=AS+(3A+B)$$

 $A=1$ $B=2$ $\rightarrow \frac{1}{S+3}+\frac{2}{(S+3)^2}$

$$\frac{1}{5+3} \rightarrow e^{-3t}\theta(t)$$

$$\frac{2}{(5+3)^2} \rightarrow 2te^{-3t}O(t)$$