5.13** tisdag 13 februari 2024

+0(+)-+0(+-1)

17:23

$$f(t) = 0, + < 0 \qquad f(t) = -t, 1 < t < 2$$

$$f(t) = + , 0 < t < 1, + > 2$$

$$f(t) = + , 0 < t < 1, + < 0, + > 2$$

$$f(t) = + , 0 < t < 1, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + < 0, + <$$

$$F(t) = t (0(t) - 0(t-1)) - t (0(t-1) - 0(t-2)) =$$

$$= t 0 (t) - t 0 (t-1) - t 0 (t-1) + t 0 (t-2) =$$

$$= +0(+) - 2 + 0(+-1) + +0(+-2) =$$

$$F(s) = \frac{1}{s^2} - \frac{2}{s^2} e^{-s^2} + \frac{1}{s^2} e^{-2s} =$$

$$=\frac{1}{s^2}\left(1-2e^{-s}+e^{-2s}\right)$$

$$L(f'') = 1 - 2e^{-s} + e^{-2s}$$

$$L(f'') = \delta(+) - 2\delta(+-1) + \delta(+-2)$$

$$L(f'') = \delta(+) - 2\delta(+-1) + \delta(+-2)$$

 $L(f') = \frac{1}{5}(1-2e^{-5}+e^{-25})$

$$L(f') = \delta(+) - 2\delta(+)$$

$$L(f') = \delta(+) - 2\delta(+) + \delta(+-2)$$

$$S' = f''(+) = \delta(+) - 2\delta(+) + \delta(+-2)$$

$$Y = 2(y)$$
 $2(y') = 5$ $2(y'') = 5^2 Y$
 $5Y + 25Y + 2Y = 1 - 2^5 + e^{-2^5}$

$$(s^{2}+2s+2) = (-2e^{-s} + e^{-2s})$$

$$(s^{2}+2s+2) = (-2e^{-s} + e^{-2s})$$

$$(s+1)^{2}+1$$

$$(s+1)^{2}+1$$

$$y(t) = e \sin(t) \theta(t) - 2e \sin(t-1) \theta(t-1) + e \sin(t-2) \theta(t-2)$$