fredag 26 januari 2024

21:44

a)
$$f(t) = (2 + 3t^{2}) 0(t) =$$

$$= 20(t) + 3t^{2}0(t)$$

$$g(t)$$

$$h(t)$$

$$y$$

$$Lh(s) = \frac{2}{8^{3}}$$

$$Lf(s) = \frac{2}{s} + \frac{6}{s^3} = \frac{2(s^2 + 3)}{s^3}$$

$$C)$$
 $F(+) = (cos 2t - Sin 2t) O(+)$

$$Lf(s) = \frac{s}{s^2 + 4} - \frac{2}{s^2 + 4} = \frac{s - 2}{s^2 + 4}$$