

1 p4.9

$$15 \sqrt{2} e^{-2t} \sin(\sqrt{2}t) \quad (1)$$

2 p3.30

$$\frac{73786976294838203125 \delta(t)}{73786976294838206464} - \frac{9223372036854775390625 e^{-1000t}}{4611686018427387904} + \frac{1152921504606846923828125 t e^{-1000t}}{1152921504606846976} \quad (2)$$