

$$2006\text{-AII: } f_a(x) = (x^2 - 2x) \cdot e^{a(3-x)}$$

$$2007\text{-AII: } f_a(x) = \frac{4}{1+a \cdot e^{-2x}}$$

$$2008\text{-AII: } f_a(x) = \frac{(1+ax) \cdot e^{ax}}{1+x^2 \cdot e^{2ax}}$$

$$2010\text{-AII: } f_a(x) = \frac{x^2 - a^2}{ax^2}; \quad a \neq 0$$

$$2011\text{-AI: } g_a(x) = \frac{2a \cdot e^x - a^2 - e^{2x}}{e^{2x}}$$

$$2012\text{-AII: } f_a(x) = \frac{3}{2} \cdot \frac{ax^2 - 2}{3x^2 + a}$$

$$2013\text{-AII: } f_a(x) = (x^2 - a^2) \cdot e^{-ax}; \quad h(x) = 1 - \cos\left(\frac{x}{2}\right)$$

$$2014\text{-AII: } f_a(x) = \frac{4e^x}{1+e^{ax}}$$

$$2015\text{-AI: } f_a(x) = \frac{2e^x}{a+e^{2x}}; \quad k(x) = x - e^{2x-10}$$

$$2015\text{-AII: } k(x) = (x-2) \cdot e^x$$

$$2016\text{-AII: } f(x) = \frac{(x-1)^2}{(x+1)(x-3)}; \quad h(x) = 5x \cdot e^{2x}$$

$$2017\text{-AI: } f_a(x) = \frac{50}{1+e^{-ax-1}}; \quad a \neq 0$$

$$2018\text{-AI: } f_a(x) = \frac{x e^{ax}}{(1+ax)^2}; \quad a > 0$$

$$2019\text{-AI: } f_a(x) = e^{\frac{2x-a}{x+a}}; \quad a \neq 0$$

$$2019\text{-AII: } f_a(x) = 1 - \frac{2e^x}{e^x + a}; \quad a \neq 0$$

$$2020 \text{ oHiMi: } f(x) = \frac{5}{4e^x + 1}$$

$$2020\text{-AI: } f(x) = -\frac{4x+2}{x^2+1}; \quad z(t) = D \cdot e^{0,5t-0,06 \cdot e^{0,5t}}$$

$$2020\text{-AII: } v(t) = 11 \cdot \left(1 - \frac{2e^{-0,088t}}{1+e^{-0,088t}}\right)$$

$$2021 \text{ oHiMi: } h(x) = \frac{1}{2} - \frac{1}{1-e^x}$$

$$2021\text{-AI: } h(x) = \frac{4x-14}{(x-4)^2+16}; \quad m_D(t) = D \cdot e^{-\frac{1}{120}t} + 24$$

$$2021\text{-AII: } f(x) = (x+2) e^{-x}$$

$$2022 \text{ oHiMi: } f(x) = \frac{2x}{4-x^2}$$

$$2022\text{-AI: } h(x) = \frac{12x^2 - 14x}{(2x-3)(3x+1)}$$

$$2022\text{-AI: } T_D(t) = (20 - T_W) \cdot e^{-\lambda \cdot t} + T_W$$

$$2022\text{-AII: } g(x) = \frac{2}{2e^{-x} + 1} - 1$$

$$2022\text{-AII: } v(t) = 5 \cdot \frac{e^{4t} - 1}{e^{4t} + 1}$$

$$2023 \text{ oHiMi: } g(x) = e^{-3x} \cdot (-3x - 2)$$

$$2023\text{-AI: } f(x) = \frac{e^{2x} + e^x}{e^{2x} + 1}$$

$$2023\text{-AII: } f(x) = \frac{x^2 - 1}{1 - 2x}; \quad V(t) = k \cdot e^{2,5 \cdot (1 - e^{-0,2 \cdot t})}$$

$$2024\text{-AI: } f(x) = \frac{x^2 + 6x + 12}{(x+2)(x+4)}$$

$$2024\text{-AII: } g(x) = \frac{x^2 + 6x + 9}{x^2 + 3}; \quad d(t) = \frac{3}{1 + e^{4,5 - 0,05t}}$$