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9) 11

a)
$$f(x) = x \cdot e^{-\frac{x}{2}} \times_{0} = 2 \cdot dx = 0.05$$

$$f'(x) = e^{-\frac{x}{2}} + x \cdot e^{-\frac{x}{2}} \cdot (-\frac{1}{2}) = \frac{1}{e^{\frac{x}{2}}} - x \cdot \frac{1}{2e^{\frac{x}{2}}} \cdot \frac{1}{12e^{\frac{x}{2}}} = \frac{1}{12e^{\frac{x}{2}}} \cdot \frac{1}{12e^{\frac{x}{$$

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(1) 2)
$$a_1 = \frac{3}{2} \cdot \frac{3}{2} \cdot \frac{3}{2} = \frac{1}{3} \cdot \frac{1}{3} \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac$$

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$$a | f(x) = \sin 2x \quad x_{6} = \frac{3\pi}{6} \quad x_{8} = 4$$

$$f(x) = 2 \cos 2x$$

$$f'(x) = -4 \sin 2x$$

$$f''(x) = -4 \sin 2x$$

$$f''(x) = -8 \sin 2x$$

$$f''(x) = -8 \cos \frac{14\pi}{6}$$

$$f''(x) = -8 \cos \frac{$$

$$f'(x) = \frac{1}{x^{2}+1}$$

$$f'(x) = \frac{1}{x^{2}+1}$$

$$f''(x) = \frac{-2}{(x^{2}+1)^{2}} = \frac{-2x}{x^{2}+1}$$

$$f''(x) = \frac{-2(x^{2}+1)+2x\cdot 4x^{3}}{x^{2}+1} = \frac{-2x^{2}-2}{x^{2}+1}$$

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$$f''(x) = \frac{-2}{x^{2}+1}$$

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$$f(x) = \text{ancsin } x \quad x_0 = 0 \quad m = 2 \qquad f(x) = 0$$

$$f'(x) = \frac{1}{\sqrt{1 - x^2}} = \frac{1}{(1 - x^2)^{1/2}} = (1 - x^2)^{1/2} \quad f'(x) = 1^{-1/2} = \frac{1}{17}$$

$$f''(x) = -\frac{1}{2}(1 - x^2)^{\frac{3}{2}} \cdot (-2x)f \qquad f''(x) = -\frac{1}{2} \cdot \frac{1}{\sqrt{17}} = -\frac{1}{2\sqrt{17}}$$

$$T_2 = \frac{1}{\sqrt{7}} \stackrel{\text{left}}{=} x \quad m - \frac{1}{\sqrt{17}} x^2$$