Shy =
$$x y^{2} + 5$$

 $y' (sin y)' = (x y^{2} + 5)'$
 $y' (cos y) = 1 y^{2} + 2y y' x$
 $y' (cos y - 2yx) = y^{2}$
 $y' = \frac{y^{2}}{cos y - 2yx}$

$$y'': \left(\frac{y^2}{\cos y - 2xy}\right)' = \frac{(y^2)'(\cos y - 2xy) - (\cos y - 2xy)'y^2}{(\cos y - 2xy)^2} = \frac{2y y'(\cos y - 2xy) - (-y'\sin y - 2(1y+y'x))y^2}{(\cos y - 2xy)^2}$$

$$= \frac{y(2y'(\cos y - 2xy) + (y'\sin y + 2y + 2xy')y)}{(\cos y - 2xy)^2} = \frac{y(\frac{2y^2(\cos y - 2yy)}{\cos y - 2xy} + (\frac{y^2(\sin y + 2x)}{\cos y - 2xy} + 2y)y)}{(\cos y - 2xy)^2}$$

$$\begin{cases}
\mathcal{I} = e^{-3t} \\
y = e^{5t}
\end{cases}$$

$$\begin{aligned}
y' = \frac{y'_t}{x'_t} \\
y'' = \frac{y''_t}{x'_t}
\end{aligned}$$

$$\begin{aligned}
y' = \frac{y''_t}{x'_t} \\
y' = \frac{8e^{t}}{2e^{-3t}} = -\frac{8}{8}e^{nt}
\end{aligned}$$

$$y''_{\epsilon} = (-\frac{9}{3}e^{11t})'_{-\frac{3}{3}}e^{11t} \Rightarrow y''_{-\frac{3}{3}}e^{11t} = 98e^{14t}$$

$$y = x^{2}, x_{0} = \rho$$

$$y' = x^{2}, x_{0} = \rho$$

$$y'' = (n \cdot 3 \left(x' \cdot 2^{x^{2}+1} \right)' \cdot x) = (n \cdot 2 \left(2^{x^{2}+1} + 2x \cdot 2^{x^{2}+1} (n \cdot 2 \cdot x) \right) = (n \cdot 2 \cdot 2^{x^{2}+1} + (n^{2} \cdot 2 \cdot x^{2} + 2^{x^{2}+1})' \cdot x)$$

$$y''' = (n \cdot 3 \cdot 2x \cdot (n \cdot 2 \cdot x^{2} + 1 + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2} + 2x \cdot (n \cdot 2 \cdot x^{2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2} \cdot 2 \cdot x^{2} + (n^{2} \cdot 2 \cdot x^{2} + 2x \cdot 2^{x^{2}+2}) = (n^{2$$

$$y'''(x_0) = (n^2) + (n^2) +$$

$$y^{(n)} = \frac{2n-1}{2^n} \cdot (x+7)$$

$$y = 5x^{2} - 6x + 7, \qquad x - 6y_{1} + 15 = 0 = 7 \quad y_{1} = \frac{-x}{6} - \frac{15}{x}$$

$$g = y(x_{0}) + y'(x_{0})(x - x_{0}), \quad g = 5x_{0}^{2} - 6x_{0}^{2} + (40x_{0} - 6)(x - y_{0}) = 7$$

$$y, \perp g = > (10x_{0} - 6)(-\frac{1}{6}) = -1$$

$$10x_{0} - 6 = 6$$

$$10x_{0} = 12$$

$$(5) \quad \chi_{1} = 2 t^{3} - 2 t^{2} + 6 t - 7 \Rightarrow V_{1} = \chi_{1}^{1} = 6 t^{2} - 4 t + 6$$

$$\chi_{2} = \frac{5}{8} t^{3} - 1 t^{2} + 14 t + 4 \Rightarrow V_{2} = \sqrt{1} = 5 t^{2} - 2 t + 14$$

$$= 7 \quad V_{1} = V_{2} = 7 \quad t^{2} - 2 t - 8 = 0$$

$$(5) \quad \chi_{3} = \frac{5}{8} t^{3} - 1 t^{2} + 14 t + 4 \Rightarrow V_{2} = \sqrt{1} = 5 t^{2} - 2 t + 14$$

$$= 7 \quad V_{1} = V_{2} = 7 \quad t^{2} - 2 t - 8 = 0$$

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$$= 7 \quad V_{2} = V_{2} = 7 \quad t^{2} - 2 t - 8 = 0$$

$$(6) \quad \chi_{3} = \sqrt{1} = V_{3} = 7 \quad t^{2} - 2 t - 8 = 0$$

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 $=>g=(10x_0-6)x-5x_0^2+1$