Domaine gazanie r yping B.

(1)
$$y = -10 \text{ prety } x + 4e^{x}$$
 $y'(x) = (-10 \text{ prety } x)' + (1e^{x})' = (-10 \cdot \frac{7}{1+x^{3}}) + (4 \cdot e^{x}) = -\frac{10}{1+x^{3}} + 4e^{x}$

A) $y = \frac{7}{24e^{x}} - \frac{e}{2e^{x}} + \frac{7}{4} \cdot 2e$
 $y' = (2e^{-\frac{x}{2}})' - (2 \cdot 2e^{-3})' + (17 \cdot 2e)' = (-\frac{3}{2} \cdot 2e^{-\frac{x}{2}} - 1) - (2 \cdot -3 \cdot 2e^{-5}) + 17 = \frac{3}{2} \cdot 2e^{-\frac{x}{2}} + 6x^{-5} + 17$

3) $y = \cos \frac{7}{1+12e}$
 $y'(x) = (\cos \frac{7-\sqrt{x}}{1+12e}) = -3cn(\frac{7-\sqrt{x}}{1+12e}) \cdot (\frac{7-\sqrt{x}}{1+12e}) = \frac{7}{4} \cdot \frac$

4)
$$y = l_{1} \frac{(x+1)(x+3)^{3}}{(x+1)^{3}(x+4)}$$
 $y' = \left(l_{1} \frac{(x+1)(x+3)^{3}}{(x+1)^{3}(x+4)}\right)^{1} = \frac{(x+1)^{3}(x+4)}{(x+1)(x+3)^{3}} \cdot \left(\frac{(x+1)(x+3)^{3}}{(x+1)(x+3)^{3}}\right)^{1} = \frac{(x+1)^{3}(x+4)}{(x+1)(x+3)^{3}} \cdot \left(\frac{(x+1)(x+3)^{3}}{(x+1)(x+3)^{3}}\right)^{1} \cdot \left(\frac{(x+1)^{3}(x+4)}{(x+1)(x+3)^{3}}\right)^{1} \cdot \left(\frac{(x+1)^{3}(x+4)}{(x+1)^{3}(x+4)}\right)^{1} \cdot \left(\frac{(x+1)^{3}(x+4)}{(x+1)^{3}(x+4)}\right)^{1} \cdot \left(\frac{(x+1)^{3}(x+4)}{$

(2)
$$y = \frac{\ln x}{x}$$
 $x_0 = e$

$$y' = \frac{\ln x' \cdot x - \ln x \cdot x'}{x^2} = \frac{\frac{1}{x^2} \cdot x - \ln x \cdot 1}{x^2} = \frac{1 - \ln x}{x^2} = 0$$

(3)
$$y = e^{\ln x}$$
 $y' = ?$
 $\ln y = \ln x \cdot \ln x$
 $\ln y' = (\ln x \cdot \ln x \cdot \ln$

(i)
$$e^{2iy} - eos(2i^2+y^2) = 0$$

 $y' = ?$
 $e^{2i}y' - (-sun(2i^2+y^2) \cdot (2i^2+y^2)') = 0$
 $e^{2i}y' - (-sun(2i^2+y^2) \cdot (2ii + 2y)) = 0$
 $e^{2i}y' + sun(2i^2+y^2) \cdot (2ii + 2y) = 0$
 $y' = -sun(2i^2+y^2) \cdot (2ii + 2y)$

(3)
$$x = t^3 + t$$

 $y = t^2 + t + 1$
 $y'(x) - ?$
 $y'(x) = \frac{(t^2 + t + 1)'}{(t^3 + t)'} = \frac{2t + 1}{3t^2 + 1}$