(H) 1, Deknicio alapjain
$$f'(a) = 2$$

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

$$f'(-1) = \lim_{k \to 0} \frac{f(-1+k) - f(-1)}{k} = \lim_{k \to 0} \frac{f(-1+k)^2 - 1}{k(k-1)^2} = \lim_{k \to 0} \frac{2k - k^2}{k(k-1)^2} = \lim_{k \to 0} \frac{(0+k)^3 + (0+k) - 0}{k(k-1)^2} = \lim_{k \to 0} \frac{(0+k)^3 + (0+k)^3 + (0+k)^3 +$$

c)
$$f(x) = \sin \sqrt{2^{x} + x^{2}}$$
 (xep.)

 $f'(x) = \cos \sqrt{2^{x} + x^{2}}$, $(\sqrt{2^{x} + x^{2}})' = \frac{1}{2\sqrt{2^{x} + x^{2}}}$. $(2^{x} + x^{2})' = \frac{1}{2\sqrt{2^{x} + x^{2}}}$. $(2^{x} + x^{2})' = \frac{1}{2\sqrt{2^{x} + x^{2}}}$. $(2^{x} + x^{2})' = \frac{1}{2\sqrt{2^{x} + x^{2}}}$.

 $f(x) = \cos \sqrt{2^{x} + x^{2}}$. $\frac{2^{x} \ln 2 + 1x}{2\sqrt{2^{x} + x^{2}}}$.

 $f(x) = x^{x}$ (xo)

 $f(x) = e^{x \ln x}$, $(x \ln x)' = x^{x}$ (lux+1)

 $f(x) = e^{x \ln x}$, $(x \ln x)' = e^{x \ln x}$. $(x \ln x)$
 $f(x) = e^{x \ln x}$, $(x \ln x)' = e^{x \ln x}$. $(x \ln x)' + x$. $(x \ln x)' + x$