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| | dick to the state of the state | f(x) f(x) f(x) f(x) | \$(x): \$(| $\begin{cases} \langle x \rangle := \\ \lim_{x \to 0} \frac{1}{x} \\ \langle x \rangle := \\ \langle x \rangle :$ | $f(x) = \frac{1}{x}$ | $f(x) = \frac{1}{x^2}$ | $f(x) = \frac{1}{x^2} (x)$ | $f(x) = \frac{1}{x^2} (x < \frac{1}{x^2})$ | $f(x) := \frac{1}{x^2} (x < 0)$ $\lim_{x \to 0} (h - 1)^{-1} - 1$ | $f(x) := \frac{1}{x^2} (x < 0)$ $\lim_{h \to 0} (h - 1) = 1 - h$ | $f(x) = \frac{1}{x} (x < 0) a$ $f(x) = \frac{1}{x} (x <$ | $f(x) = \frac{1}{x^2} (x < 0) a = \frac{1}{x^2} $ $f(x) = \frac{1}{x^2} (x < 0) a = \frac{1}{x^2} $ $f(x) = \frac{1}{x^2} (x < 0) a = \frac{1}{$ | $f(x) = \frac{1}{x} (x < 0) a = -\frac{1}{x} $ $\lim_{x \to 0} h = \frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - \frac{1}{x} h$ $\lim_{x \to 0} h = -\frac{1}{x} - 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1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^{-2} + h + 1 + h^{-2} + 2h + 1$ $\lim_{x \to 0} (h - 1)^{-1} = h^$ | $\begin{cases} (x) := \frac{1}{x^2} (x < 0) & a = -1 \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2} \\ \lim_{x \to 0} (h - 1)^x = \frac{1}{x^2} - \frac{1}{x^2} + \frac{1}{x^2} $ | $f(x) := \frac{1}{x^2} (x < 0) a = -1$ $\lim_{h \to 0} \frac{1}{h} - \frac{1}{h} - \frac{1}{h^2} \frac{2h + 1}{2h + 1}$ $\lim_{h \to 0} \frac{1}{h} - \frac{1}{h} - \frac{1}{h^2} \frac{2h + 1}{h} \frac{1}{h^2}$ $\lim_{h \to 0} \frac{1}{h} - \frac{1}{h^2} \frac{2h + 1}{h} \frac{1}{h^2} \frac{2h + 1}{h}$ $\lim_{h \to 0} \frac{1}{h} - \frac{1}{h^2} \frac{2h + 1}{h} \frac{1}{h^2} \frac{2h + 1}{h}$ $\lim_{h \to 0} \frac{1}{h} - \frac{1}{h^2} \frac{2h + 1}{h^2} \frac{1}{h^2} \frac{1}{h$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | lim $(h-1)^{2}$ 1 - h^{2} 2 h + 1 - h^{2} 2 h + h^{2} 3 h + | $f(x) := \frac{1}{x^2} (x < 0) a = -1$ $\lim_{x \to 0} \frac{1}{h} = \frac{h^2}{h^2} = \frac{1}{h^2} = \frac{h}{h} = \frac{h}{h} = \frac{h}{h} = \frac{h}{h^2} = \frac{h}{h} =$ | $f(x) := \frac{1}{x^2} (x < 0) a = -4$ $\lim_{x \to 0} \frac{1}{h^2} = \frac{1}{h^2} \frac{1}{h^2} + \frac{1}{h^2} 1$ | $f(x) := x \times (x \times 0) a := -1$ $\lim_{h \to 0} \frac{1}{h} = \frac{1}{h} \cdot \frac{h}{2} \cdot \frac{h}{h} + \frac{h}{h} \cdot \frac{h}{2} \cdot \frac{h}{h} + \frac{h}{h} \cdot $ | $f(x) := \frac{1}{2^{n}} (x < 0) a = -1$ $\lim_{N \to 0} \frac{1}{1} = \frac{1}{1} - \frac{1}{1} - \frac{1}{1} + \frac{1}{$ | $f(x) := \frac{1}{2} (x < 0) a = -1$ $\lim_{h \to 0} \frac{1}{h} = \frac{1}{1} - \frac{1}{h} \cdot \frac{1}{2} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{2} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{h} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{h} \cdot$ | $f(x) := \frac{1}{2} (x < 0) a := -1$ $\lim_{h \to 0} \frac{1}{h} = \frac{1}{h} \cdot \frac{1}{2} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{2} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{h} $ | $f(x) := \frac{1}{2^{n}} (x < 0) a = -1$ $\lim_{h \to 0} \frac{1}{h} = \frac{1}{h} - \frac{1}{h} \cdot \frac{1}{h} + \frac{1}{h} \cdot \frac{1}{2^{n}} + \frac{1}{h} \cdot \frac{1}{h} \cdot \frac{1}{2^{n}} + \frac{1}{h} \cdot \frac{1}{h}$ | $f(x) := \int_{\mathbb{R}^{2}} (x < 0) \ a = -1$ $\lim_{h \to 0} (h - 1)^{-1} = h^{-2} + h + 1 - h + h + 2 + h + 1 - h + h + 2 + h + 1 + h + h + h + h + h + h + h + h$ |

1(x) = sin (2x1 x2) Cas (1/2×+×2) 2 (2×+×2 2 ln 2 + 2× 4(x) = cos(ln 2x) - - vin (ln2x) · 2x · X · X · X · Coden 2x (2x lnx+x2) = X(- zin(en 2x) ln x + cos(e 2x)(2 ln x +1)) -- oin (ln2X) ln X - cosln 2 X · 2 ln X - cos (ln (n) 3 raja meg a következő faggvének deniváltját!

a, f(x) = x x = (elnx) = e x lnx = eleh (x ln x) E(x): Och(xlnx) - X & + lnx = lxlnx + lnx + lnx P, I(X) = (X3+X) ln X = (eln(X3+X)) - eln(X3+X) . ln X = exp(ln(x3+x).lnx) $f'(x) = 2 \ln (x^3 + x) \cdot \ln x \cdot (\ln (x^3 + x) \cdot \ln x)$ $= 2 \ln (x^3 + x) \cdot \ln x \cdot (\frac{1}{x^3 + x} \cdot 3x^2 + 1) \cdot \ln x + \ln (x^3 + x) \cdot \frac{1}{x}$