3183 (x,y)=(0+g) sin + sin + 1) live (lim + a,y); Bloom + (a,y) = lan ((x+g) son \(\frac{1}{2} \) son \(\frac{1}{2} = $9n \pm (lm y sn + xlm sn + y)$ m = lin + (xly) m = lin + (xly)2) lin (lim f(x,y)): drawwish n.1) 3) $\lim_{x\to 0} f(x,y) = \lim_{x\to 0} (x+y) \cdot \sin \frac{1}{x} \cdot \sin \frac{1}{y} = 0; \quad \sin \frac{1}{x} \cdot \sin \frac{1}{y} - \cos \frac{1}{y} \cdot \sin \frac{1}{y}$ $m.e. lm f(\lambda,y) = 0.$ 32[23 $f(x,y) = e^{-\frac{1}{2^2+y^2}} \text{ npu } x^2 + y^2 > 0$ f(0,0) = 0rpourboguese repreparant 6 0(0;0) eun ote racuriore 1) nangén rammore monzogribre pou tegiso fx= e steg - (224y)2 , fy= e steg2 (24g2)2 2) hangen raimede prongbothere θ $\theta(0,0)$, $\frac{1}{h^{20}}$ $\theta(0,0)$, $\frac{1}{h^{20}}$ $\theta(0,0)$ $\frac{1}{h^{20}}$ $\theta(0,0)$ $\frac{1}{h^{20}}$ $\frac{1}{h$ $= \lim_{h \to 0} \frac{1}{-e^{\frac{2}{h^2}}} = \lim_{h \to 0} \frac{h}{2e^{\frac{1}{h^2}}} = 0.$