1.
$$f(x) = \frac{1}{1 + \exp(-x)}$$

 $f'(x) = \frac{1}{1 + \exp(-x)'} = \frac{1}{1 + (e^{-x})'} = \frac{1}{1 + (e^{-x})'}$
 $= \frac{1}{1 + (e^{-x})'}$

2.
$$f(\chi_{19}\chi_{2}) = \chi_{1}^{2} + 2\chi_{2}$$

$$f(\chi_{19}\chi_{2}) = (smt)^{2} + 2(cost)$$

$$f'(\chi_{19}\chi_{2}) = (cost)^{2} + 2(smt)^{2}$$

$$\frac{3}{b} = e^{x^{2}}$$

$$b = e^{x^{2}}$$

$$c = x^{2} + e^{x^{2}}$$

$$e = cos(x^{2} + e^{x^{2}})$$

$$f = x^{2} + e^{x^{2}}$$

$$e = cos(x^{2} + e^{x^{2}})$$

$$\frac{\partial a}{\partial x} = 2x$$

$$\frac{\partial b}{\partial a} = e^{x^{2}}$$

$$\frac{\partial c}{\partial a} = 1 + e^{x^{2}}$$

$$\frac{\partial c}{\partial a} = -sm(x^{2} + e^{x^{2}})$$

$$\frac{\partial f}{\partial c} = \frac{1}{2\sqrt{x^{2} + e^{x^{2}}}}$$

$$\frac{\partial f}{\partial c} = \frac{1}{$$

$$\frac{Gf}{G\chi} = 2\chi \left(e^{\chi^2}+1\right) \left(-\sin(e^{\chi^2}+\chi^2) + \frac{1}{2\sqrt{e^{\chi^2}+\chi^2}}\right)$$