Many Derivatives
Part 2

$$\frac{d}{dx}\left(\frac{x}{(x^2+1)^2}\right) = \frac{1-3x^2}{(x^2+1)^3}$$

$$\frac{d}{dx}\left(\frac{20}{1+5e^{-2x}}\right) = \frac{200e^{-2x}}{(1+5e^{-2x})^2}$$

$$\frac{d}{dx}\left(\sqrt{e^x}+e^{\sqrt{x}}\right) = \frac{1}{2}\left(\sqrt{e^x}+\frac{e^{\sqrt{x}}}{\sqrt{x}}\right)$$