Many Derivatives
Part 1

$$\frac{d}{dx}\left(\frac{\sin x}{1+\cos x}\right) = \frac{1}{1+\cos x}$$

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

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

$$\frac{d}{dx}\left(x^2(2x^3+1)^{10}\right) = 2x(32x^3+1)(2x^3+1)^9$$