Technical analysis is popular in the financial stock market. Moving averages are commonly used in the technical analysis. Let $x(t)$ be the price of a stock. Based on the simple moving averages, we propose and study the following functional differential equations:

$$x'(t) = x(t) - x(t - 1)$$

$$x'(t) = k \left( x(t) - \frac{1}{\alpha} \int_{t-\alpha}^{t} x(s) ds \right),$$

where $k$ and $\alpha > 0$ are constants. (Received February 23, 2017)