Maxwell's equations are the fundamental equations for the components $E_x(x,y,z,t)$, $E_y(x,y,z,t)$, and $E_z(x,y,z,t)$ of the electric field vector and the components $B_x(x,y,z,t)$, $B_y(x,y,z,t)$, and $B_z(x,y,z,t)$ of the magnetic field vector.
There are two Maxwell's equations without time derivatives, one for the electric field and one for the magnetic field:

$$\frac{\partial E_x}{\partial x} + \frac{\partial E_y}{\partial y} + \frac{\partial E_z}{\partial z} = \frac{\rho}{\epsilon_0}$$

$$\frac{\partial B_x}{\partial x} + \frac{\partial B_y}{\partial y} + \frac{\partial B_z}{\partial z} = 0$$

There are two sets of three equations each for the time derivatives of the electric field and of the magnetic field, respectively:

$$\frac{\partial E_x}{\partial t} = \frac{1}{\mu_0 \epsilon_0}\left(\frac{\partial B_z}{\partial y} - \frac{\partial B_y}{\partial z}\right) - \frac{J_x}{\epsilon_0}$$

$$\frac{\partial E_y}{\partial t} = \frac{1}{\mu_0 \epsilon_0}\left(\frac{\partial B_x}{\partial z} - \frac{\partial B_z}{\partial x}\right) - \frac{J_y}{\epsilon_0}$$

$$\frac{\partial E_z}{\partial t} = \frac{1}{\mu_0 \epsilon_0}\left(\frac{\partial B_y}{\partial x} - \frac{\partial B_x}{\partial y}\right) - \frac{J_z}{\epsilon_0}$$

$$\frac{\partial B_x}{\partial t} = -\left(\frac{\partial E_z}{\partial y} - \frac{\partial E_y}{\partial z}\right)$$

$$\frac{\partial B_y}{\partial t} = -\left(\frac{\partial E_x}{\partial z} - \frac{\partial E_z}{\partial x}\right)$$

$$\frac{\partial B_z}{\partial t} = -\left(\frac{\partial E_y}{\partial x} - \frac{\partial E_x}{\partial y}\right)$$

The Lorentz force law gives the electromagnetic force acting on a charge q in an electric and/or magnetic field at position (x,y,z) and time t:

$$F_x = qE_x + q\left(v_y B_z - v_z B_y\right)$$

$$F_y = qE_y + q\left(v_z B_x - v_x B_z\right)$$

$$F_z = qE_z + q\left(v_x B_y - v_y B_x\right)$$