All of physics, circa 1905

$$\int \vec{\mathbf{E}} \cdot \hat{\mathbf{n}}\, da = \frac{1}{\varepsilon_0} \int \rho\, d^3r \qquad \text{[Gauss, Electricity]}$$

$$\oint \vec{\mathbf{E}} \cdot d\vec{\ell} = -\frac{d}{dt} \int \vec{\mathbf{B}} \cdot \hat{\mathbf{n}}\, da \qquad \text{[Faraday]}$$

$$\int \vec{\mathbf{B}} \cdot \hat{\mathbf{n}}\, da = 0 \qquad \text{[Gauss, Magnetism]}$$

$$\oint \vec{\mathbf{B}} \cdot d\vec{\ell} = \mu_0 \int \vec{\mathbf{J}} \cdot \hat{\mathbf{n}}\, da + \mu_0 \varepsilon_0 \frac{d}{dt} \int \vec{\mathbf{E}} \cdot \hat{\mathbf{n}}\, da \qquad \text{[Amperé-Maxwell]}$$

$$\left[\int \vec{\mathbf{J}} \cdot \hat{\mathbf{n}}\, da = -\frac{d}{dt} \int \rho\, d^3r \right] \qquad \text{[Charge conservation]}$$

$$\int \vec{\mathbf{G}} \cdot \hat{\mathbf{n}}\, da = -4\pi G \int \rho_m\, d^3r \qquad \text{[Gauss, Gravity]}$$

$$\oint \vec{\mathbf{G}} \cdot d\vec{\ell} = 0 \qquad \text{[Newton]}$$

$$\int \vec{\mathbf{J}}_m \cdot \hat{\mathbf{n}}\, da = -\frac{d}{dt} \int \rho_m\, d^3r \qquad \text{[Mass conservation]}$$

$$\vec{\mathbf{F}} = q(\vec{\mathbf{E}} + \vec{\mathbf{v}} \times \vec{\mathbf{B}}) + m\vec{\mathbf{G}} \qquad \text{[Lorentz-Newton]}$$

$$\frac{d\vec{\mathbf{p}}}{dt} = \vec{\mathbf{F}} \qquad \text{[Newton]}$$

$$\vec{\mathbf{p}} = m\vec{\mathbf{v}} \qquad \text{[Newton]}$$