**Physics 12 Formulae**

**Kinematics**

**Special Relativity**

**Forces**

**Equilibrium**

**Circular Motion**

**Fields**

*I*

= *BA*

**Momentum**

**Major constants**

*speed of light in vacuum*

*elementary charge*

*magnetic constant*

*(permeability of vacuum)*

*electric constant*

*(permittivity of vacuum)*

*Coulomb’s constant*

**Sine law:**

**Cosine law:**

**Quadratic formula:**

The general quadratic equation has the following roots