Dot Product

The dot product of two vectors u and v is denoted by $u \cdot v$.

$$ec{u}=\langle u_1,u_2,u_3
angle, ec{v}=\langle v_1,v_2,v_3
angle \ u\cdot v=u_1v_1+u_2v_2+u_3v_3$$

The Angle Between Two Vectors \boldsymbol{u} and \boldsymbol{v} is,

$$heta = \cos^{-1}\left(rac{ec{u}\cdotec{u}}{||ec{u}||\,||ec{v}||}
ight)$$