## Equations

## Charthulius Wheezer

$$arctan(x) = tan^{-1}(x)$$

$$tan(theta) = \frac{Y}{X}$$

$$theta = arctan(\frac{Y}{X})$$

$$theta = atan2(Y, X)$$

$$tan(alpha) = \frac{Z}{R}$$

$$alpha = arctan(\frac{Z}{R})$$

$$alpha = atan2(Z, R)$$

$$R = \sqrt{X^2 + Y^2} = norm([X, Y])$$