Kinematic Equation

To calculate the horizontal position the kinematic differential equations are needed:

$$\dot{u} = u\cos\psi - v\sin\psi \qquad (1)$$

$$\dot{e} = u\sin\psi + v\cos\psi \qquad (2)$$

For small angles the following approximation can be used:

$$\dot{n} = u - v\delta_\psi \qquad (3)$$

$$\dot{e} = u\delta_\psi + v \qquad (4)$$

Fermat's Last Theorem

Fermat's Last theorem state that

$$x^n + y^n = z^n$$

has no non-zero integer solutions for x, y and z when $n > 2$.