

### A fancy title

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

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

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



For small angles the following approximation can be used:

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

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

### Fermat's Last Theorem

Fermat's Last Theorem states that

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

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