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 states that

\[ x^n + y^n = z^n \]

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