height (ft)

Latitude

Longitude

Submit

Input Field
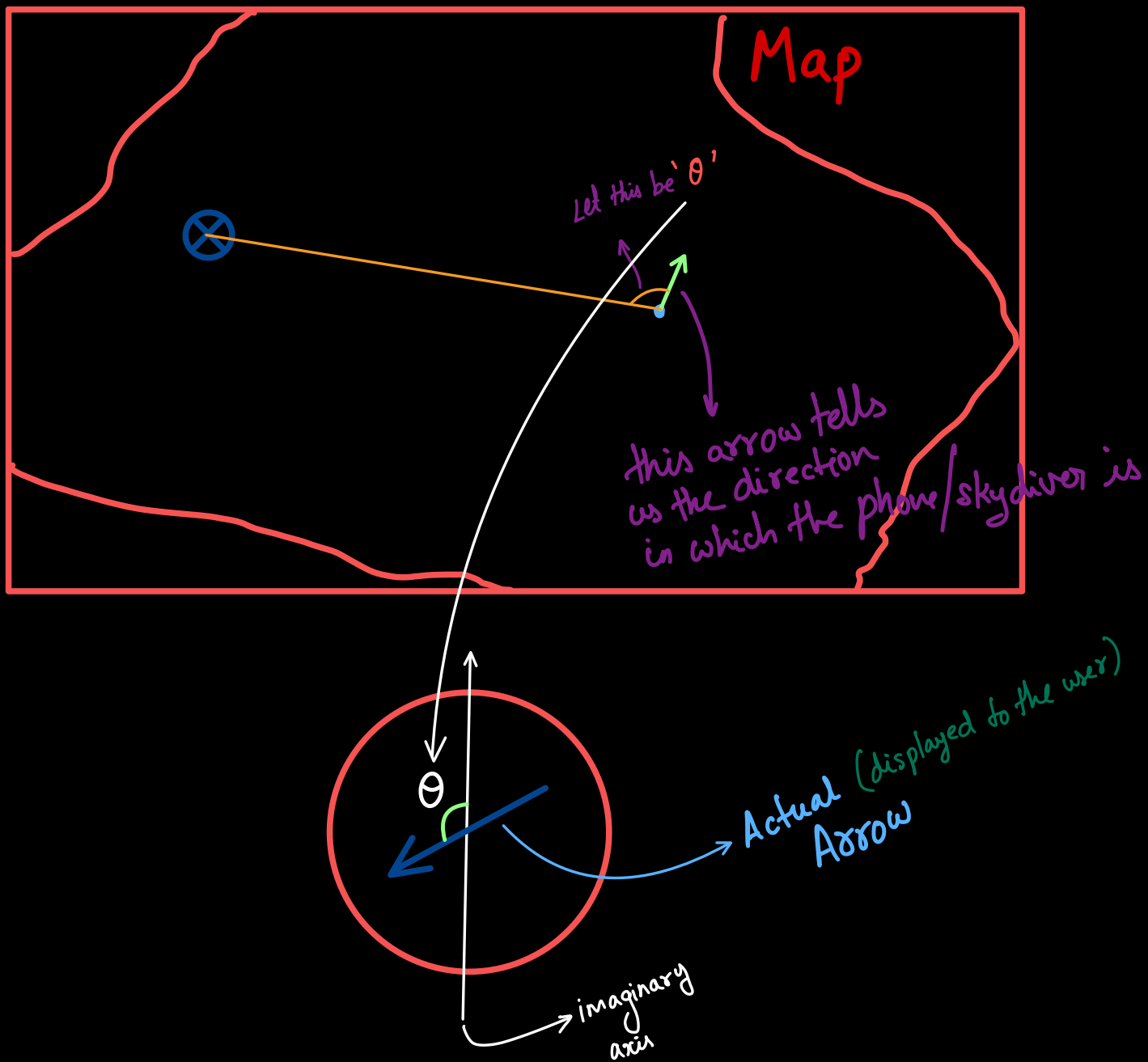
map

Landing

Start/drop point
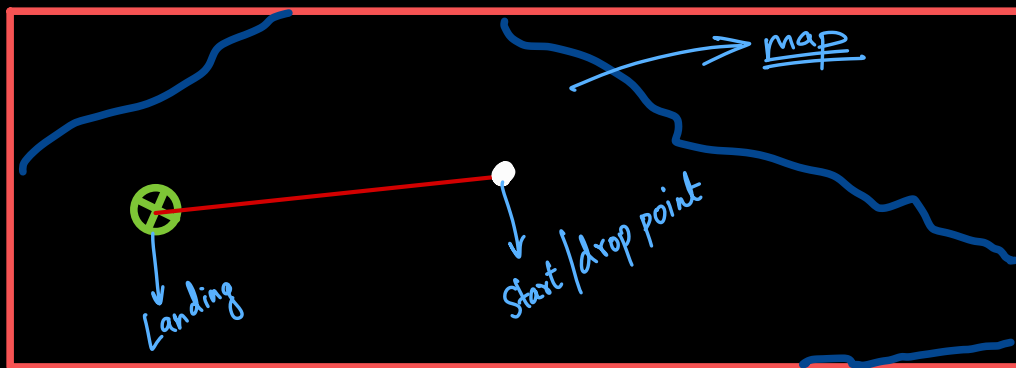
↑ direction arrow

how much left or right must travel

↙ height direction arrow

the graph of predicted trajectory

drop point

landing zone

height

distance

Map

Let this be 'θ'

this arrow tells us the direction in which the phone/skydiver is

θ

Actual (displayed to the user) Arrow

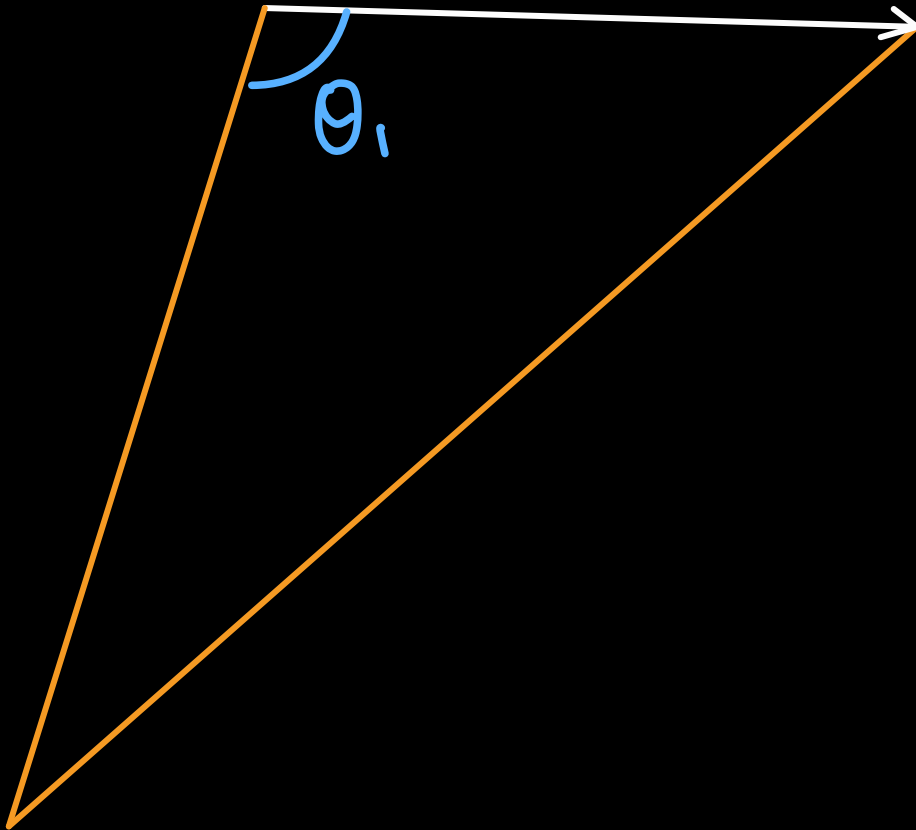imaginary axis
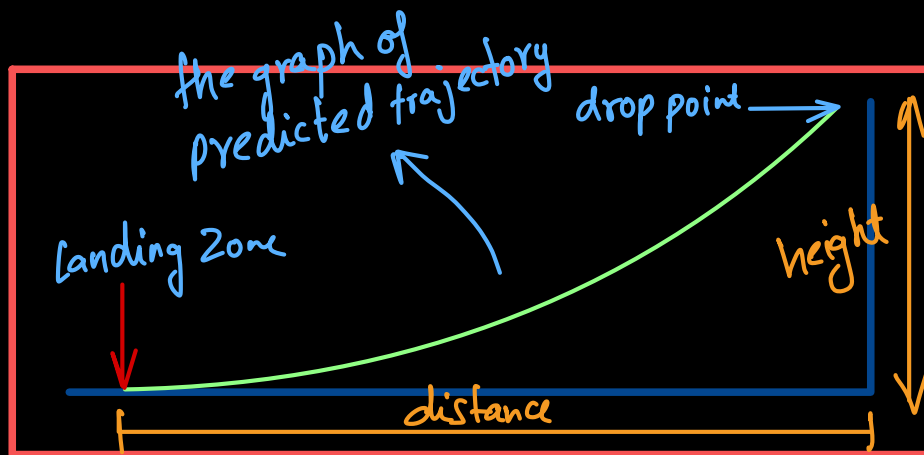
Angle θ_1 $\longrightarrow$ Vincenty's Formulae

this theory **doesn't** use eucledian distance as eucledian distance always leads to wrong result

$$\cos\theta_1 = \frac{l_2^2 + l_3^2 - l_1^2}{2 l_2 l_3}$$

prev

l_2

current

θ_1

l_3

l_1

land