let wind = wxî + wyj N = (No cood) i + (No sina) j + wxi + wyj = (Nocosa + wx) i + (Nosina + wy) j no = Xoi + 90 j. 12(t) = -1 g + g + w+ + 10 = -1 g +2 j + (No cora + wx) ti + (No sina + wy) tj + x00 - 70 1 = [x 0 + (No cosx + wx)t] i+ [-19t2 + (Nosina + wy)t + yo] i y'= -gt + Nosina+wy =0 >> t = Nosina+wy  $\frac{1}{Max} = -\frac{1}{2}g \left(\frac{N_0 \sin \alpha + \omega_0}{g}\right)^2 + \left(\frac{N_0 \sin \alpha + \omega_0}{g}\right) \left(\frac{N_0 \sin \alpha + \omega_0}{g}\right) + \frac{1}{2}g \left(\frac{N_0 \sin \alpha + \omega_0}{g}\right)^2 + \frac{1}{2}g \left(\frac{N_0 \sin$ Max = (No sina + Wy) + 40



