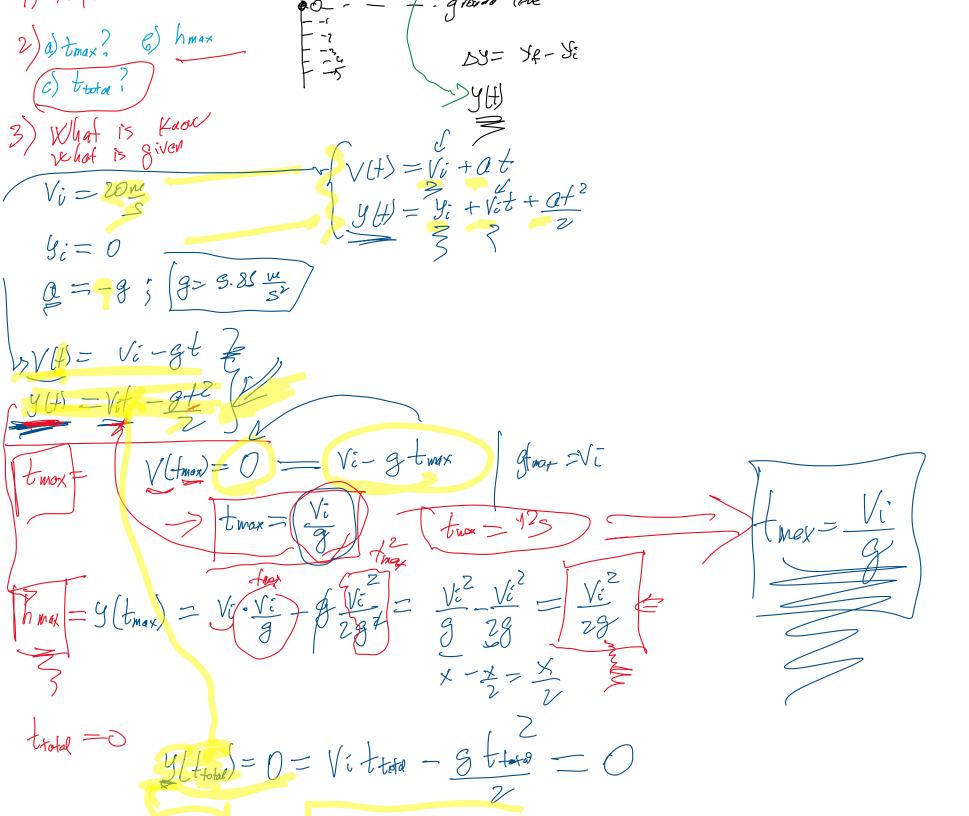


$$X_{\ell} = x_{i} + v_{i}v_{i} + a_{i}v_{i}$$

$$X_{\ell} = x_{i} + v_{i}v_{i}(v_{\ell} + v_{i}) + a_{i}(v_{\ell} - v_{i})^{2} = x_{i} + v_{i}v_{\ell} - v_{\ell}v_{\ell}^{2} + a_{\ell}v_{\ell}^{2} - a_{\ell}v$$

- => Vertical Motion: No fir Resistance
- Troxing an object upward with a fortial speed of 2011
- a) how long it tokes to reach its highest Point?
- 6) what is the height of the highest Point?
- () Total time that object is in the ain?
- 1) Reference Frame



 $t_{total}(Vi - 9t_{total}) = 0$ x(x-6)=0 $t_{total} = 0$ x=0 x-6=0 x=6 x=