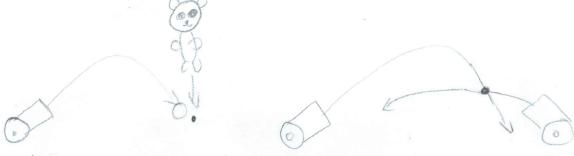
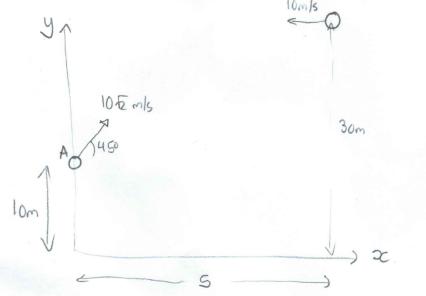
## KINEMATICS

Projectile Collisions,

- Collision of some or and y position,



Let's start with the hardest problem:



Collision in 
$$\alpha$$
:  $V_{A\alpha} = 10\sqrt{2}\cos 45^\circ = 10$   $V_{B\alpha} = 10$   $V_{A\alpha} = 10$   $V_{B\alpha} =$ 

Collision my: 
$$V_{Ay} = 1042 \text{ smus} = 10$$
  $V_{By} = 0$   $Od = V_1\Delta t + \frac{1}{2}a\Delta t^2$   $O_{Ay} = 10\Delta t - 4.9\Delta t^2$   $O_{By} = -4.9\Delta t^2$   $O_{Ay} = 20 - |d_{By}|$   $Od = V_2\Delta t + \frac{1}{2}a\Delta t^2$   $Od = V_3\Delta t^2$ 

Od= V, Ot+ = act 2