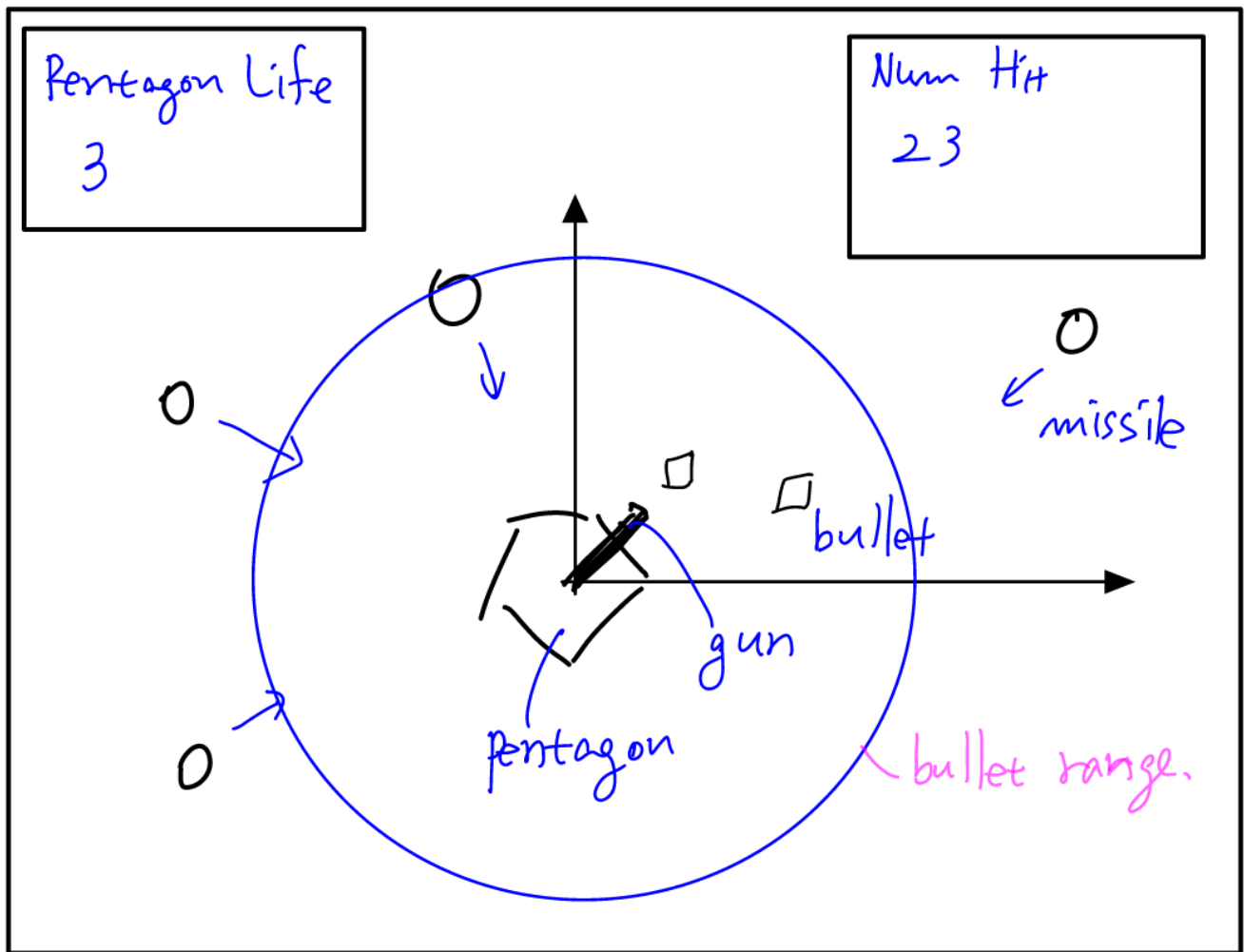


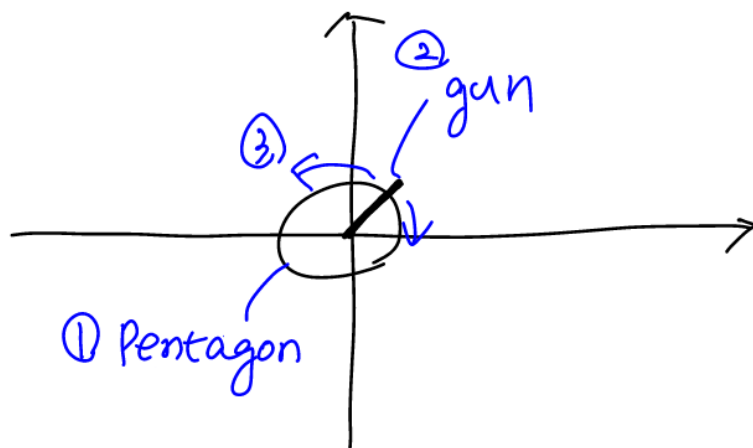
2D and 3D Game Programming.

@ Pentagon Defense Game

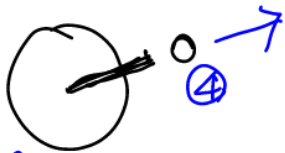
* Mid-term Project



Due Date: October 22, 2018



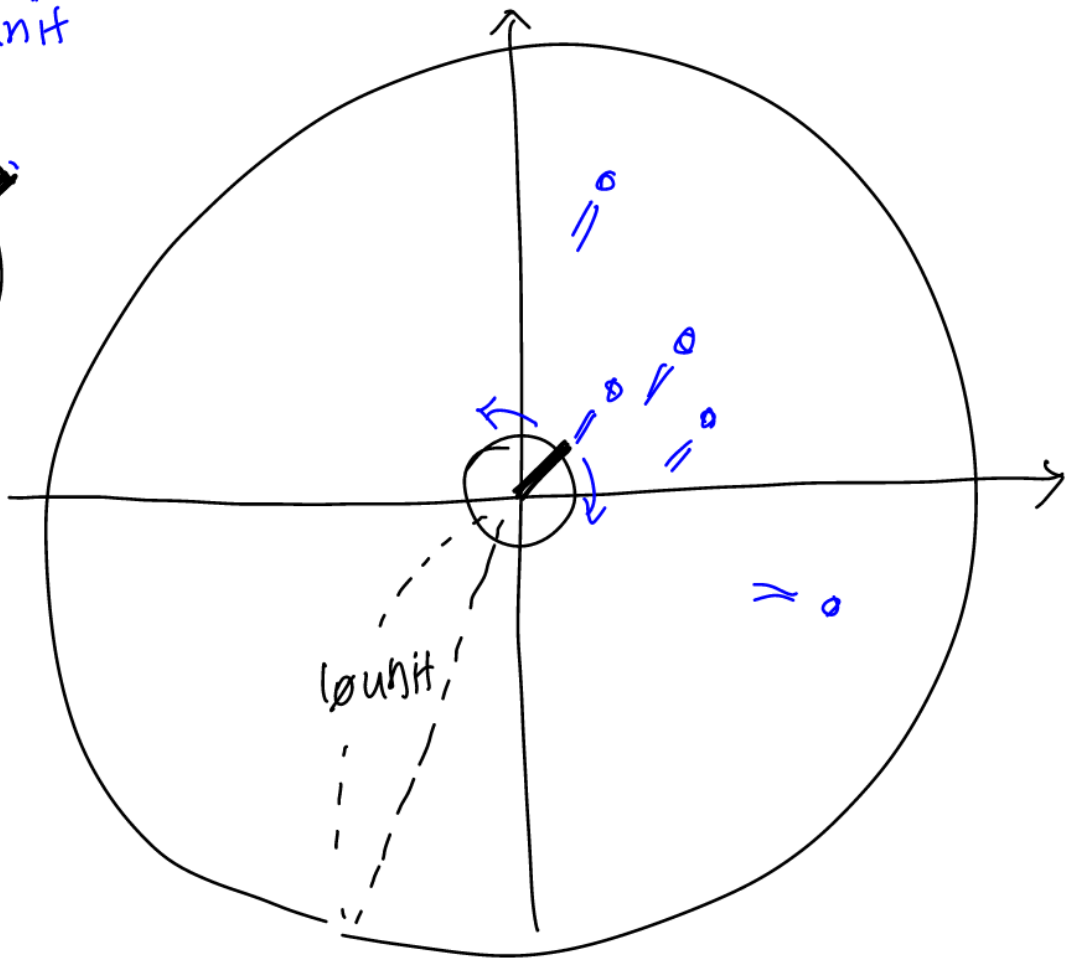
(4)
③ Player can control the gun with mouse.



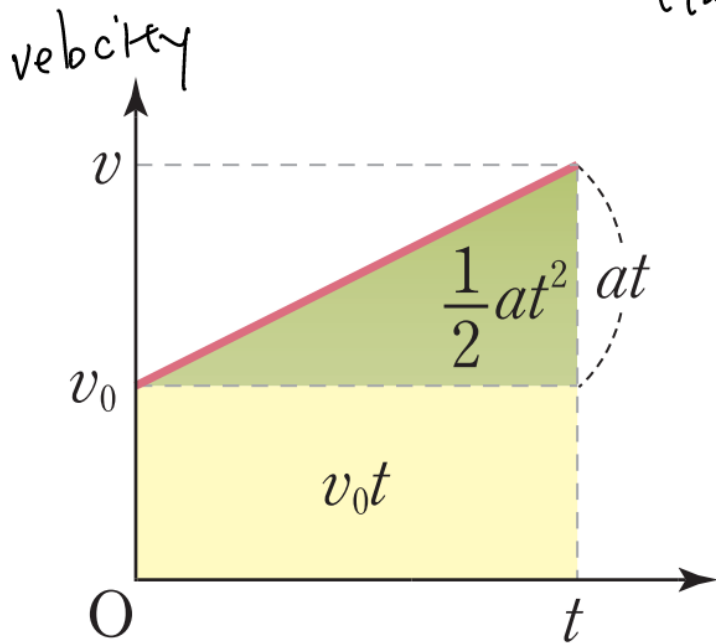
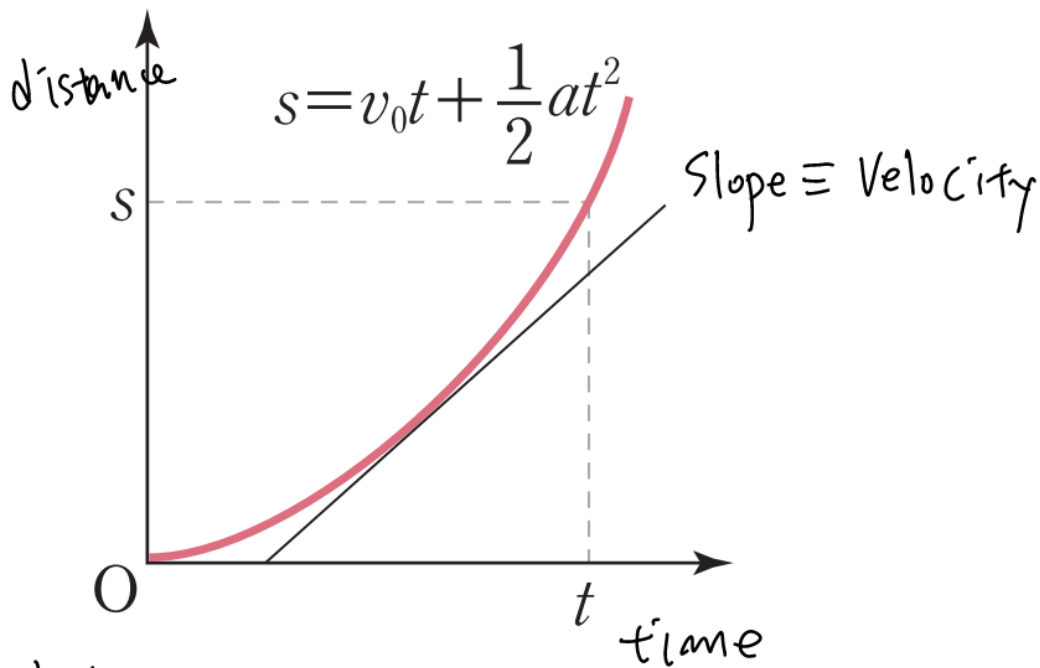
④ Player can fire a bullet with left mouse button.
(Maximum 5 bullets)

→ bullet disappears when the distance to pentagon exceeds certain limit. (10 unit)

* pentagon
0.5 unit



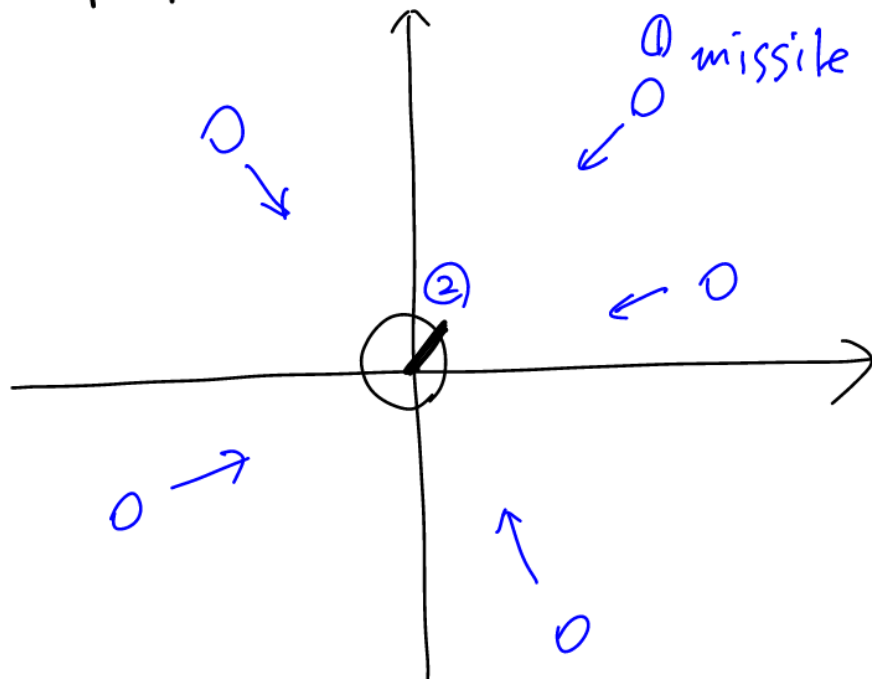
- 1) Implement DrawCircle(hdc, center, radius, #polygon)
- 2) Implement class KPentagon
- 3) Implement mouse logic
↳ WM_LBUTTONDOWN.
↳ check mouse position.
- 4) Implement class KBullet (must have an acceleration)



$$v = v_0 + at$$

$$s = s_0 + v_0 t + \frac{1}{2} a t^2$$

* Missile Attack



① randomly generated missile approaches

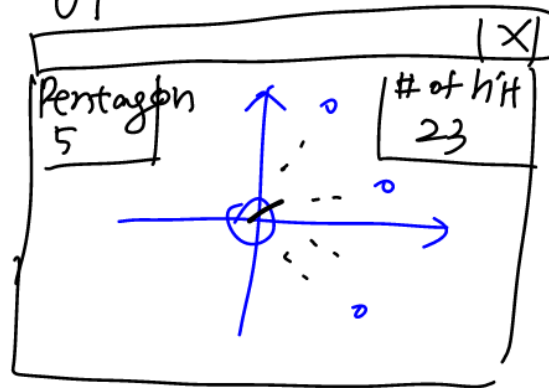
pentagon (maximum 10 missiles) (6)

② Player must hit a missile with bullet
(acceleration)

1) Implement class KMissile

* Game System

- 1) Implement class KBulletManager
- 2) Implement class KMissileManager
- 3) Implement UI



Complete remained parts of the game!