



Relative position
 r

speed v



speed
 s

Possible
Intercept point
 z

1. Solve for t where $t > 0$

$$\|r + v * t\| = s * t$$

2. calculate aim point
 $\text{target_pos} + v * t$

3. desired heading is
Aim point – interceptor pos

Potential Issues

- Bigger evasive maneuvers
- Greater speed difference
- Evasive maneuvers just before impact