$$T = \frac{2(h, v, m)}{|h - \frac{150,000}{c}|} \le \frac{500}{c},$$

$$|v - \frac{28}{c}| \le \frac{3.8}{c},$$

$$250 \le m \le 500$$

$$L(h, v, m) = \max\left(h - \frac{149500}{c}, v - \frac{25.2}{c}, m - 250,$$

$$\frac{150,500}{c} - h, \frac{30.8}{c} - v, 500 - m\right)$$

$$L(h, v, m) \le 0 \iff (h, v, m) \in T$$

Part 2

Part 2

$$V(h, V, m, t)$$
 satisfies $+JI$ PDE

 $\frac{\partial V}{\partial t}(h, v, m, t) + \min_{n \in V} \max_{d \in D} \nabla V(h, v, m, t) + (h, v, m, v, d)$
 $= \frac{\partial V}{\partial h} \cdot \frac{\partial V}{\partial v} \cdot \frac{\partial V}{\partial m} \left[\begin{array}{c} V \\ h \\ h \\ \end{array} \right] \cdot \frac{\partial V}{\partial v} \cdot \frac{\partial V}{\partial v} \cdot \frac{\partial V}{\partial m} \left[\begin{array}{c} V \\ h \\ h \\ \end{array} \right] \cdot \frac{\partial V}{\partial v} \cdot \frac{\partial V}{\partial v} \cdot \frac{\partial V}{\partial m} \cdot \frac{\partial V}{\partial v} \cdot \frac{$

$$d^* = \underset{d \in D}{\operatorname{arg}} \underset{d \in D}{\operatorname{max}} \xrightarrow{\partial V} d$$

$$d^{4} = \begin{cases} \frac{1}{2} & \text{if } \frac{\partial V}{\partial V} > 0 \\ -\frac{1}{2} & \text{if } \frac{\partial V}{\partial V} < 0 \end{cases}$$