

For any $e \neq e^*$,

$$\frac{10}{3} - \frac{e^*}{2} \geq 2 - \frac{e}{2}.$$

This is iff

Thus, for the pooling PBE to exist it must be the case that $e^* \leq \frac{8}{3}$.

LOW-type Incentive-Compatibility Condition is:

For any $e \neq e^*$,

$$\frac{10}{3} - \frac{e^*}{1} \geq 2 - \frac{e}{1}.$$