

# Submission for Apoorv Malia and Mario Lagos

A3 Q1.2

If  $\frac{\lambda_{\text{sr}}}{\lambda_{\text{s}}} = 0$ , then  $1 - \frac{\lambda_{\text{sr}}}{\lambda_{\text{s}}} = 1$ . Therefore, we always reject.

If  $\frac{\lambda_{\text{sr}}}{\lambda_{\text{s}}} = 1$ , then  $1 - \frac{\lambda_{\text{sr}}}{\lambda_{\text{s}}} = 0$ . Therefore we never reject

As we increase  $\frac{\lambda_{\text{sr}}}{\lambda_{\text{s}}}$  from 0 to 1, we are less likely to reject.