**Approach**

1. Determine demand function using two years of bookings for the guest suite and party room
2. Using a linear regression, the models are as follows:

**Guest Suite:**

**Party Room:**

*NB: this function will need to be updated at an agreed time interval*

1. Determine the revenue equation by multiplying the demand function by price
2. Take the first derivative of the revenue equation with respect to price, set it to zero and solve price, to determine optimal pricing

Create a table that stores the Popt, slope and intercept for the



