1. Error got smaller as number of subintervals increased.

$$\frac{err_1}{err_2} \approx \left(\frac{n_2}{n_1}\right)^p$$

$$\log \left(\frac{err_1}{err_2} \right) \approx \rho \log \left(\frac{n_2}{n_1} \right)$$

$$p \approx \frac{\log (err, /err_2)}{\log (n_2 / n_1)}$$

2. The runtime increased as the number of intervals increased.

$$g \approx \frac{\log(7, 1/2)}{\log(n_1/n_2)} \approx 1.01$$
 seconds