

Table for problem # 1.

n	condition #: $k(H(n))$	residual: $\ A\tilde{x} - b\ _\infty$	error: $\ x - \tilde{x}\ _\infty$
2			
3			
4			
5			
10			
15			

- The smallest value of n for which the relative error in \tilde{x} is greater than one is:
- At this value of n the relative error is:

Table for problem # 2.

Method	Approximation	Error
Trapezoid Rule		
Simpson's 1/3 Rule		
Gaussian Quadrature		

- The best method is
- There are two reasons why this method is best. State them: