

Differential Equation		Initial Condition		Step Size		
dy/dx=(6y+e^x)/2		y(0)=5		h=1/2		
Trapezoidal Method						
x	y	f1	f2	delta y	Exact	Relative Error
0	5	15.5	39.0743606	13.6435902	5	0
0.5	18.6435902	56.7551311	142.422608	49.7944348	23.1166873	0.193500785
1	68.438025	206.673216	517.564743	181.05949	104.769498	0.346775292
1.5	249.497515	750.733388	1878.28715	657.255136	471.469517	0.47080881
2	906.75265	2723.95248	6812.27792	2384.0576	2116.1539	0.571509119
2.5	3290.81025	9878.522	24700.2565	8644.69463	9489.17705	0.653203831
3	11935.5049	35816.5574	89547.9085	31341.1165	42536.1692	0.71940339

