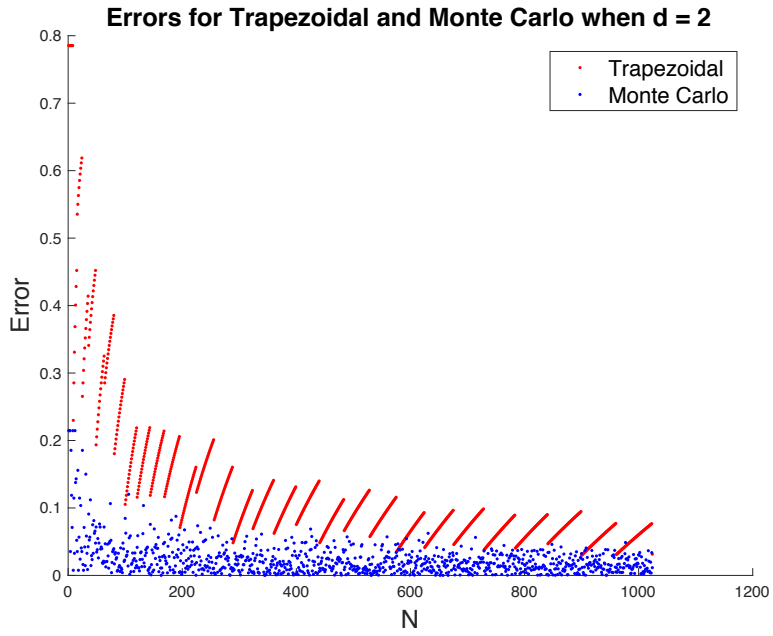

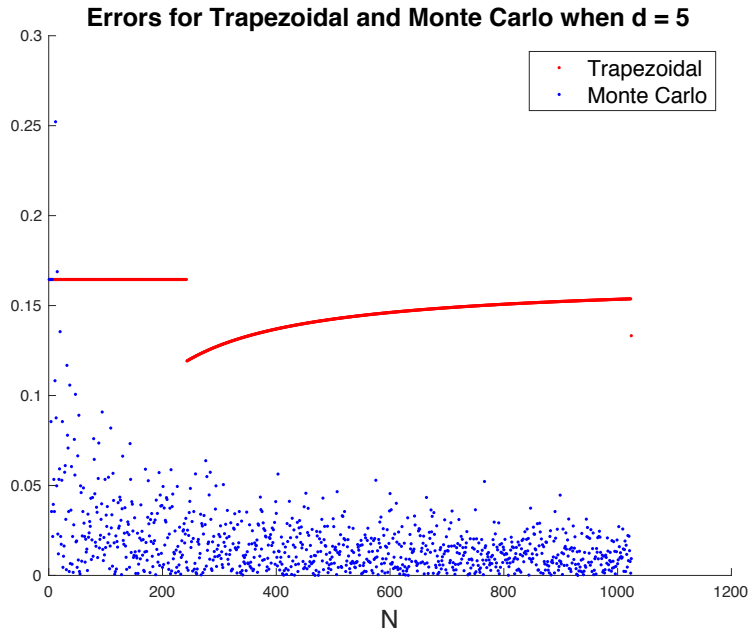

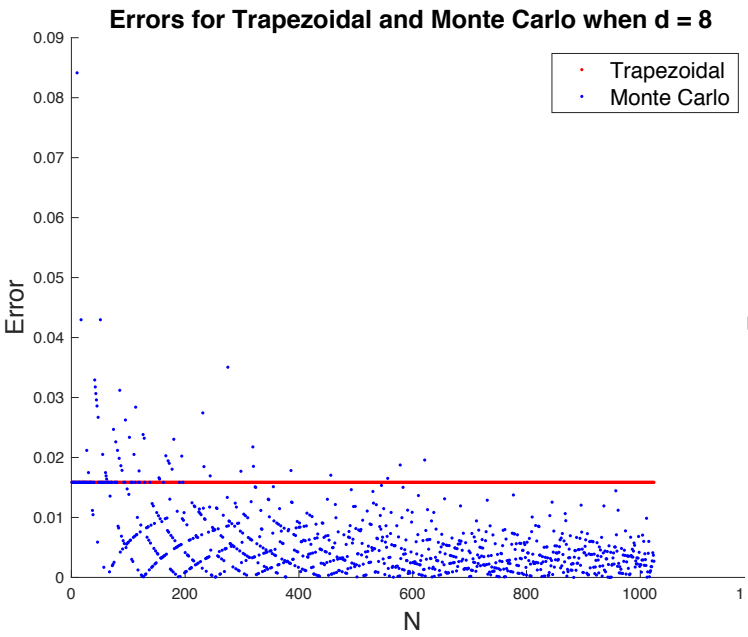

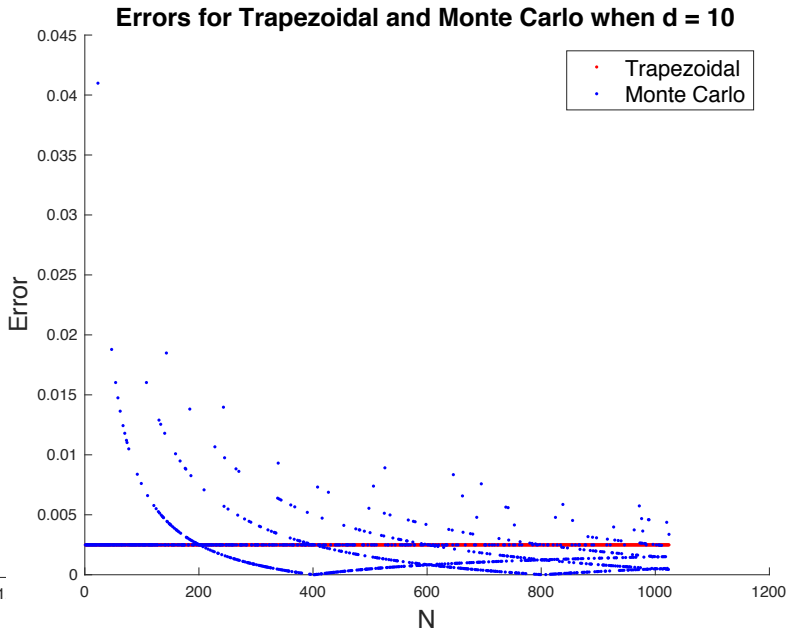

The N range from 1 to 1000 in this experiment. The graph above shows d in 2, 5, 8 and 10. For Monte Carlo method, the error decrease as number N increase in all the chosen dimension cases. For Trapezoidal method, the error decrease as N get large but turn into constant as d gets big. In practice, I would recommend using Monte Carlo method with a large N because It has better approximation to the true value even with increase dimension.