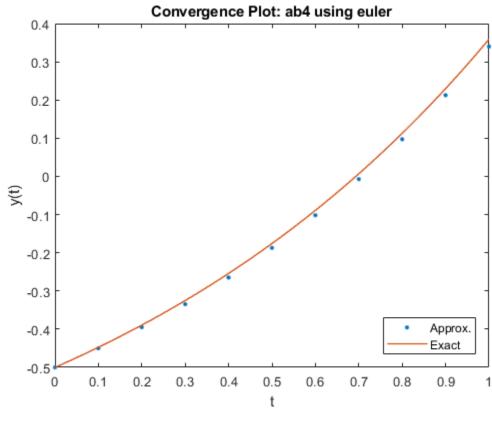
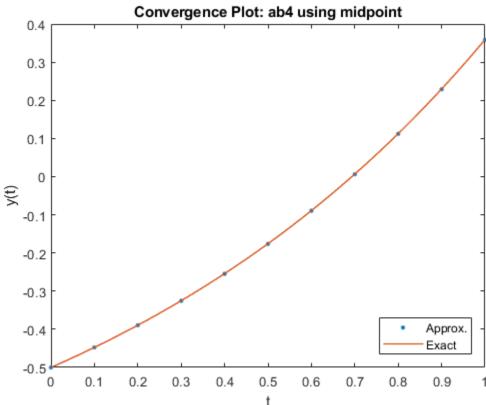
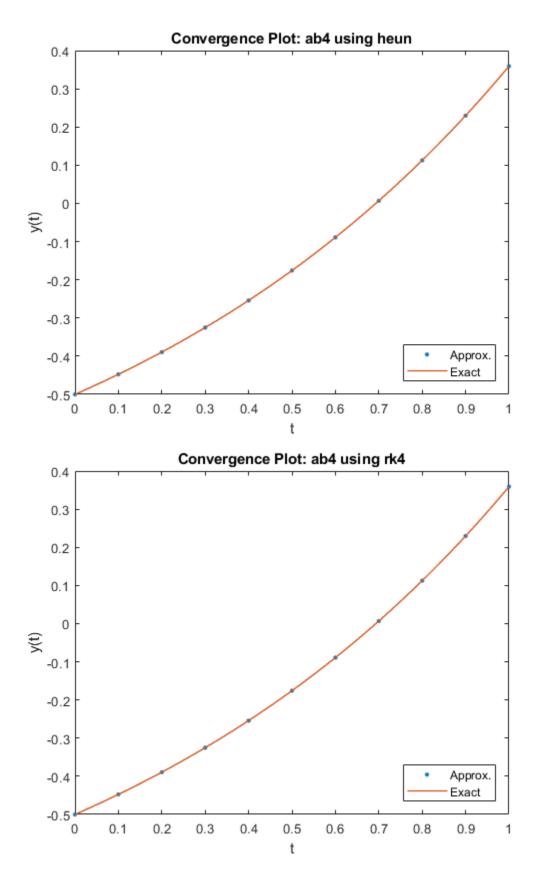
Question 1:







We see that the performance of ab4 improves as we use higher order methods to find the starting values. While it is less noticeable when using methods of second order and above, the improvement in ab4's approximation when going from a first order (euler) to second order (midpoint) method is apparent.

Question 2: