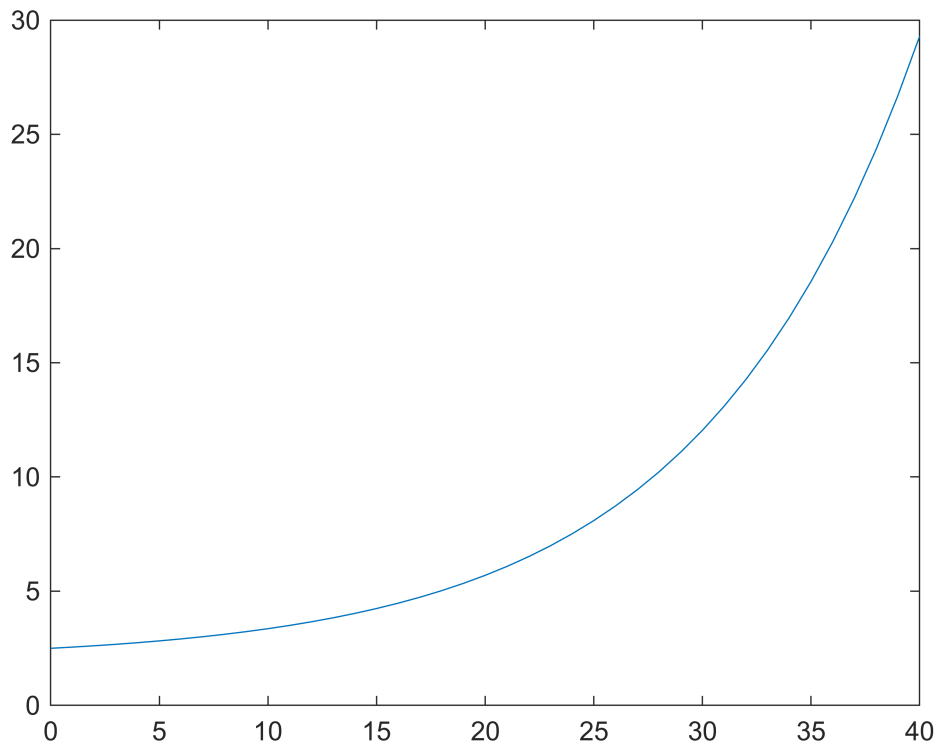
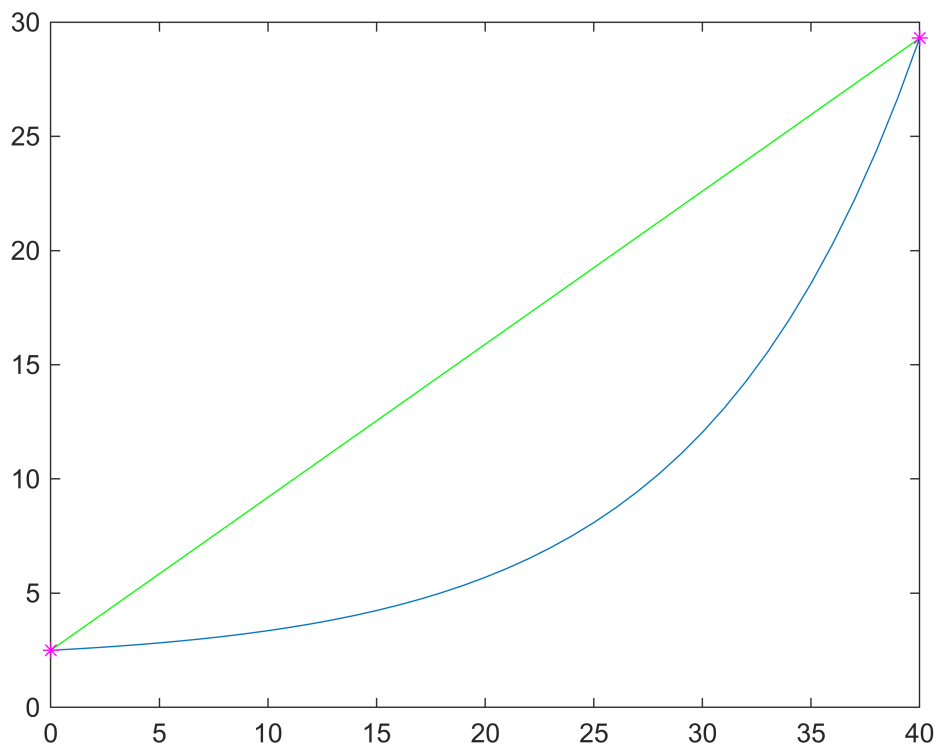


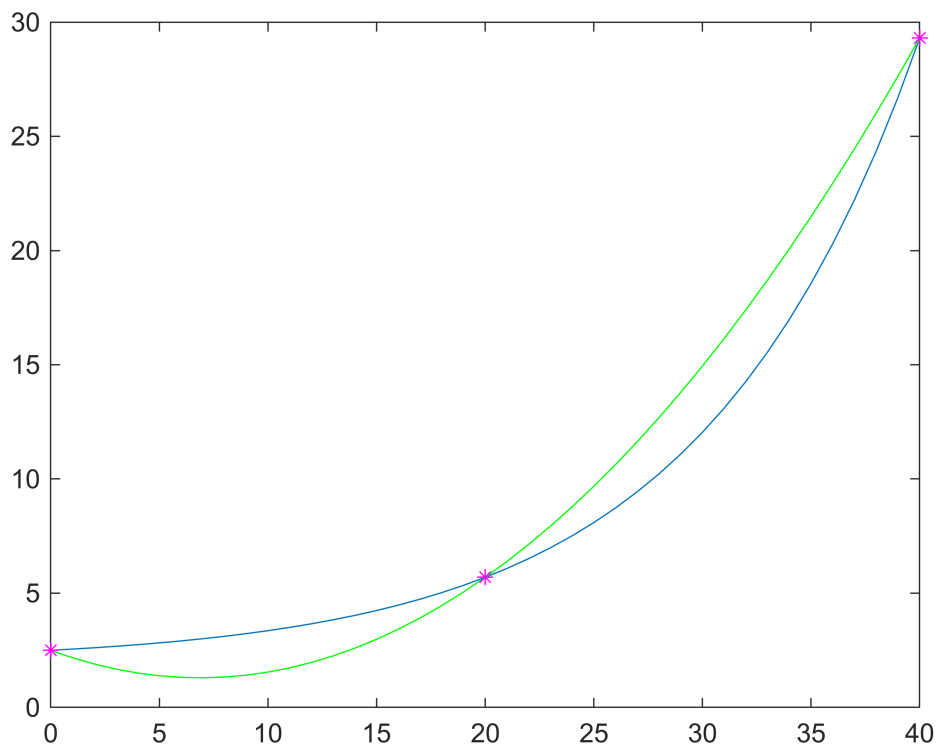
1) Let's assume $y = 0.5e^{(0.1x)} + 2$ Let's plot this function from $x = 0$ to 40



2) Now let's assume that we don't know this function, but we know only some points on this function.
For example, if we only know 2 points with equal interval between 0 and 40, then we can use linear interpolation to predict the unknown function



3) Now assume that we only know 3 points with equal interval between 0 and 40, then we can use quadratic interpolation to predict the unknown function



4) Now assume that we only know 4 points with equal interval between 0 and 40, then we can use cubic interpolation to predict the unknown function

