No.

Date

Question 2.

8.1.

let $s=[S]$, $a=[ES]$, $e=[E]$, $p=[P]$

$$\frac{de}{dt} = (k_2+k_3)a - k_1 se$$

$$\frac{ds}{dt} = k_2 a - k_1 se$$

$$\frac{da}{dt} = k_1 es - (k_2+k_3)a$$

$$\frac{dp}{dt} = k_3 a$$

8.2.

We first define a function and the code is in equations.m. Then limit the initial conditions and do the calculation, the code is in integration.m. Both of those m.files are in the same folder.