

Question 2

2.1

$$d[E]/dt = k_2[ES] - k_1[E][S] + k_3[ES]$$

$$d[S]/dt = k_2[ES] - k_1[E][S]$$

$$d[ES]/dt = k_1[E][S] - k_2[ES] - k_3[ES]$$

$$d[P]/dt = k_3[ES]$$