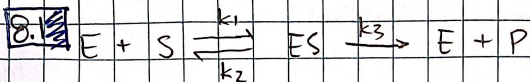


Question 2



$$\frac{d[E]}{dt} = k_2[ES] + k_3[ES] - k_1[S][E]$$

$$\frac{d[S]}{dt} = k_2[ES] - k_1[S][E]$$

$$\frac{d[ES]}{dt} = k_1[S][E] - (k_3 + k_2)[ES]$$

$$\frac{d[P]}{dt} = k_3[ES]$$