

Question 2-part 1

Th four differential equations are:

$$\frac{dS}{dt} = K_2[ES] - K_1[S][E]$$

$$\frac{dE}{dt} = (K_2 + K_3)[ES] - K_1[S][E]$$

$$\frac{dES}{dt} = K_1[S][E] - (K_2 + K_3)[ES]$$

$$\frac{d(E + P)}{dt} = K_3[ES]$$