

8.1

$$\begin{aligned}\frac{d[E]}{dt} &= 0 \\ \frac{d[S]}{dt} &= k_2[ES] + k_1[E][S] \\ \frac{d[ES]}{dt} &= k_1[E][S] + k_2[ES] + k_3[ES] \\ \frac{d[P]}{dt} &= k_3[ES]\end{aligned}$$

8.2

8.3

