

Question 2.

$$k_1 = \frac{[ES]}{[E][S]} \quad k_2 = \frac{[E][S]}{[ES]} \quad k_3 = \frac{[E][P]}{[ES]}$$

$$8.1 \quad [E] = \frac{[ES]}{k_1 \cdot [S]} \quad [S] = \frac{k_2 [ES]}{[E]}$$