

8.1

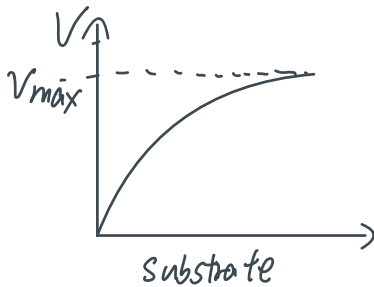
$$\frac{d[E]}{dt} = -k_1[E][S] + k_2[ES] + k_3[ES]$$

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

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

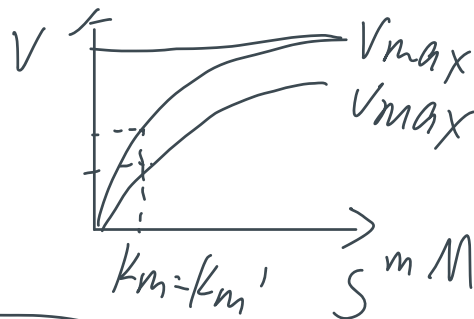
$$\frac{d[P]}{dt} = k_3[ES]$$

8.3, competitive



$$V_{max} = k_3[E_t]$$

non-competitive



uncompetitive

