

You measure the rate of reaction at for various concentrations of A. You then add an inhibitor I with a concentration of 0.1 mmol/L and repeat the rate measurements.

C_A (mmol/L)	1.00	1.29	1.67	2.15	2.78	3.59	4.64	5.99	7.74	10.00
$-r_A$ ($\times 10^{-3}$ mmol L \bullet min)	4.27	5.36	6.92	8.06	9.15	11.4	13.8	15.0	19.5	19.3
$-r_{A,\text{inhib}}$ ($\times 10^{-3}$ mmol L \bullet min)	2.13	2.66	3.22	4.02	4.71	5.52	6.51	7.16	8.62	9.00

- Determine the Michaelis-Menten parameters (K_M and V_{\max}).
- Using Lineweaver-Burk plots, determine the type of inhibition occurring when the inhibitor I is added to the system.
- From your plot in part (b), determine the K_I value.