LAB PARTNER

LOCKER/DESK NO.

COURSE & SECTION NO.

iculations continued ...

Trial THREE

$$\frac{92-91}{x2-x1} = \frac{1.12-1.11}{120-102} = \frac{-1.11\times10^{-3}}{A/5}$$
or M/S

GAll of the slopes or reaction rates obtained are negative. This makes sense because as a reaction proceeds, the concentration of reactant(s) decrease.

$$\frac{92-91}{x^2-x^2} = \frac{1.02-1.06}{174-138} = -1.11\times10^{-3}$$
109 6.8/1.6

5. busing Trial (and () (change in [Brz]

$$x = \frac{\log f_{1}/r_{2}}{\log f_{A}}$$

$$[2A]$$

$$= \left(\frac{-3.03 \times 10^{-4}}{-2.9 \times 10^{-4}}\right) \frac{169}{-0.301029995}$$

$$= \left(\frac{-3.03 \times 10^{-4}}{-2.9 \times 10^{-3}}\right) \frac{-0.301029995}{-0.301029995}$$

$$\approx 0$$

6 Using Trial @ and 10 (change in [HCI]

$$y = \frac{\log r_{1}/r_{2}}{\log \frac{r_{A}}{r_{A}}} = \frac{\log \frac{-5.83 \times 16^{\circ}}{-1.11 \times 10^{-3}}}{\log \frac{r_{A}}{r_{A}}}$$

$$= \frac{\log r_{1}/r_{2}}{\log \frac{r_{A}}{r_{A}}}$$

$$= \frac{1.98}{2.21}$$

yusing Trial & and (echange in [Acetoni]

$$Z = \log \frac{1.11 \times 10^{-3}}{-1.11 \times 10^{-3}} - 2.9 \times 10^{-4}$$

$$109 6.8/1.6 \sim 24$$

6. Rate = K [HCI][Acetina]

7. TRIAL ONE IX - VALUE) + 5.24 x 10-4 = K (0.2)(0.8) $K = -3.28 \times 10^{-3}$

TRIAL TWO K = 3.64 × 10-3

TRIAL THREE = -0.063 K = 3.47 × 10-3

> TRIAL FOUR $K = 3.47 \times 10^{-3}$