



I 1 1 0

C -x -x +2x

E (1-x) (1-x) 2x

0.755 0.755 0.49

$$\left[\right] = \frac{5.00 \text{ mol}}{5 \text{ L}} = 1 \text{ M}$$

$$K = .0125 = \frac{[\text{NO}]^2}{[\text{N}_2][\text{O}_2]}$$

$$.0125 = \frac{2x^2}{(1-x)^2}$$

$$x = 0.245$$