

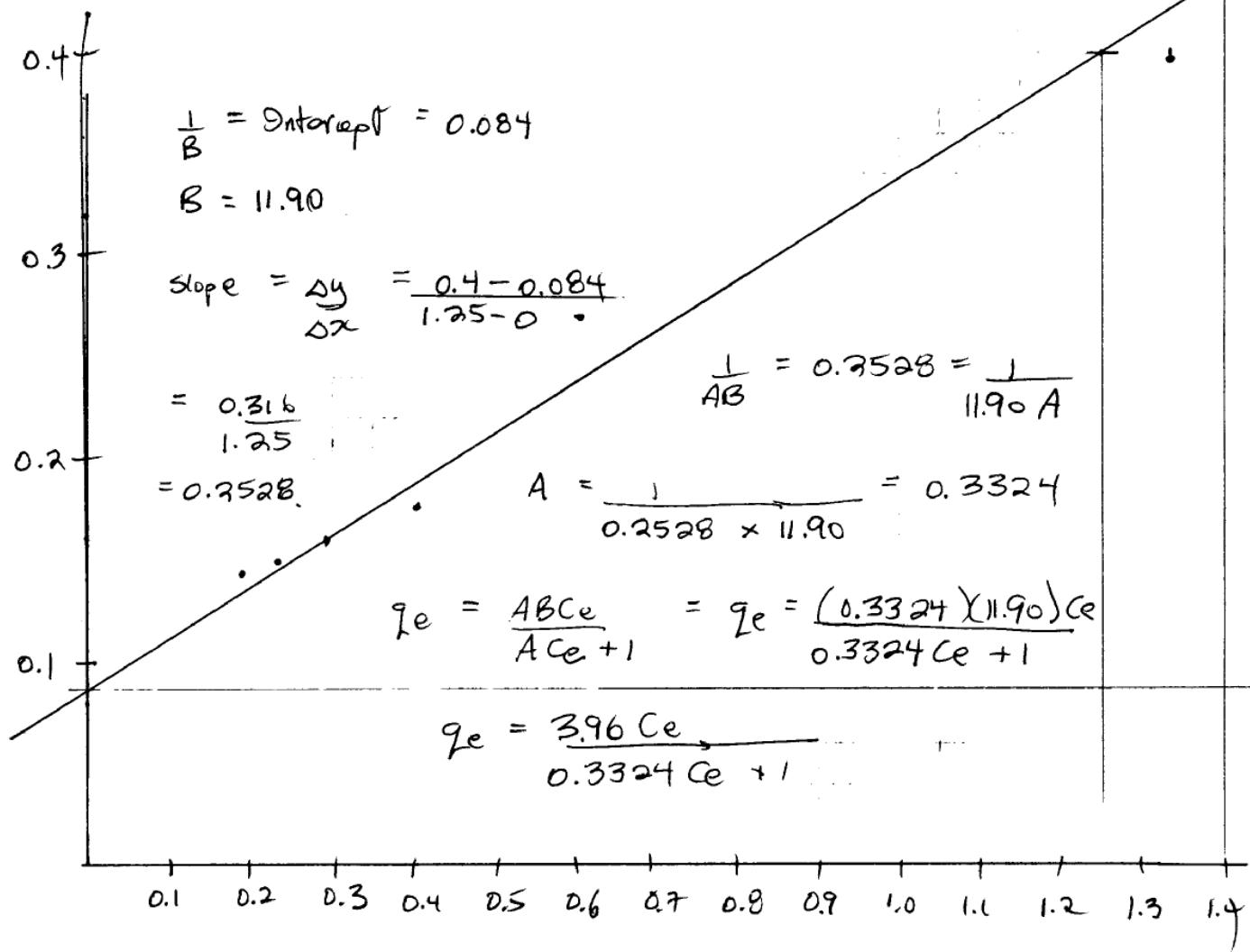
- 1) a) She found some disease clusters
- 1) a) She found some disease clusters where incidence of a number of ailments were much above the National average.
- b) There were 70% of children with asthma, there was a gender imbalance, with 50 males to 100 females instead of 100 males to 105 females, and there was a high miscarriage rate.
- c) Deny, delay, divide, discredit
- d) She joined with 2 researchers and published an article on their town in an international journal so that global attention was focused on the problem.
- e) It means industry must prove a substance is safe, rather than releasing it into the environment and requiring the public to prove the substance is hazardous.

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m soil g/mL	Co mmol/L Zn	Ce mmol/L	Co-Ce mmol/L	$q_e =$	$\chi_{qe}$	$\gamma_{qe}$
				$\chi/m.$	mmol/kg	mmol/kg
0.1	1	0.749	0.251	2.51	0.398	1.335
0.1	2	1.63	0.37	3.70	0.270	0.613
0.1	3	2.44	0.56	5.60	0.178	0.410
0.1	4	3.38	0.62	6.20	0.161	0.396
0.1	5	4.33	0.67	6.70	0.149	0.231
0.1	6	5.31	0.69	6.90	0.145	0.188

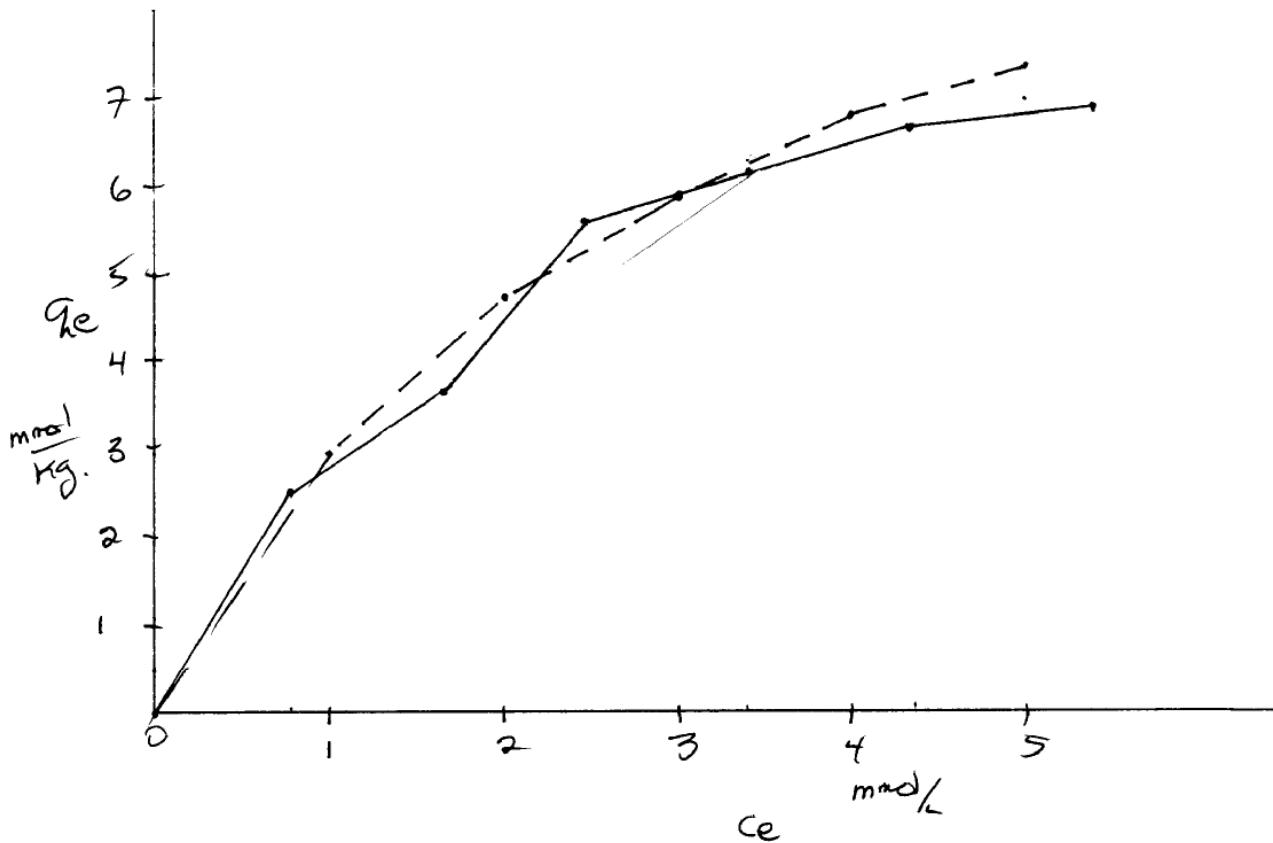
$$\frac{2g}{20 \text{ mL}} = 0.1 \text{ g/mL}$$

$$\frac{0.251 \text{ mmol}}{0.1} \times \frac{\text{mL}}{\text{g}} \times \frac{1000 \text{ mL}}{1} = 0.00251 \text{ mmol} \times 1000 \frac{\text{mmol}}{\text{kg}} = 2.51 \text{ mmol/kg}$$



$$q_e = \frac{3.96 C_e}{0.3324 C_e + 1}$$

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$$C_e = 1 \quad q_e = \frac{3.96}{1.3324} = 2.972$$

$$C_e = 2 \quad q_e = \frac{7.92}{1.6648} = 4.76 \quad 11.90 = \text{max mean adsorption.} \quad \overline{\text{kg}}$$

$$C_e = 3 \quad q_e = \frac{11.88}{1.9972} = 5.95 \quad C_e = 3.33 \quad q_e = \frac{13.187}{1.107 + 1} = 6.25$$

$$C_e = 4 \quad q_e = \frac{15.84}{2.33} = 6.80$$

$$C_e = 5 \quad q_e = \frac{19.8}{2.662} = 7.44$$