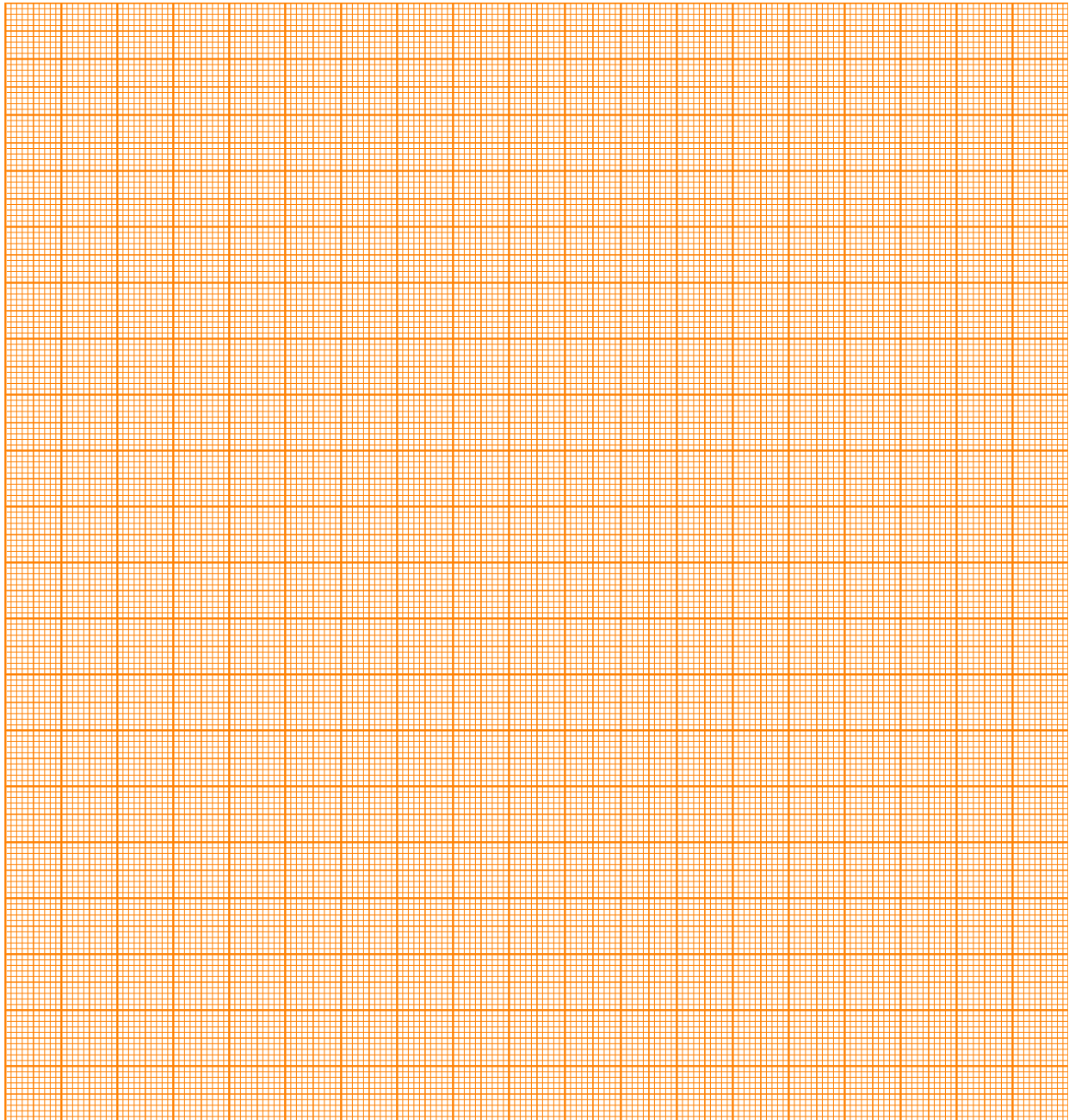




**A.2** (1.1 pt)

**Graph A.2:**  $N_1, N_2$  vs.  $A_D$



**A.3** (1.0 pt)

$A_{D, \text{crit.}} =$

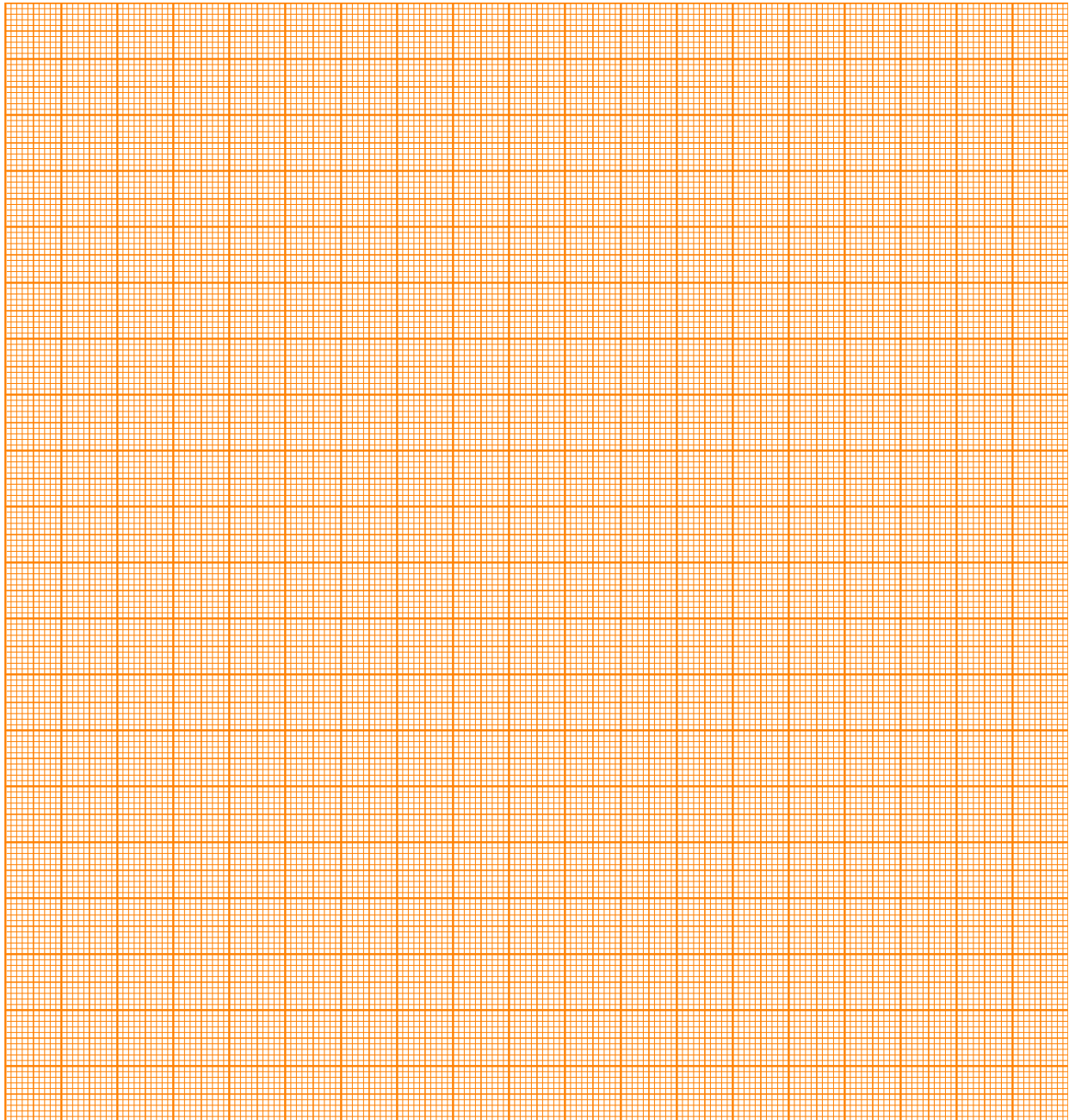
**Part B. Calibration (3.2 points)**

**B.1** (0.5 pt)

Sketch of the setup:



**B.3** (1.0 pt)  
**Graph B.3:**  $A$  vs.  $A_D$



**B.4** (0.8 pt)  
Function  $A(A_D)$ :

Parameters of the curve:

**B.5** (0.1 pt)

$A_{\text{crit}} =$

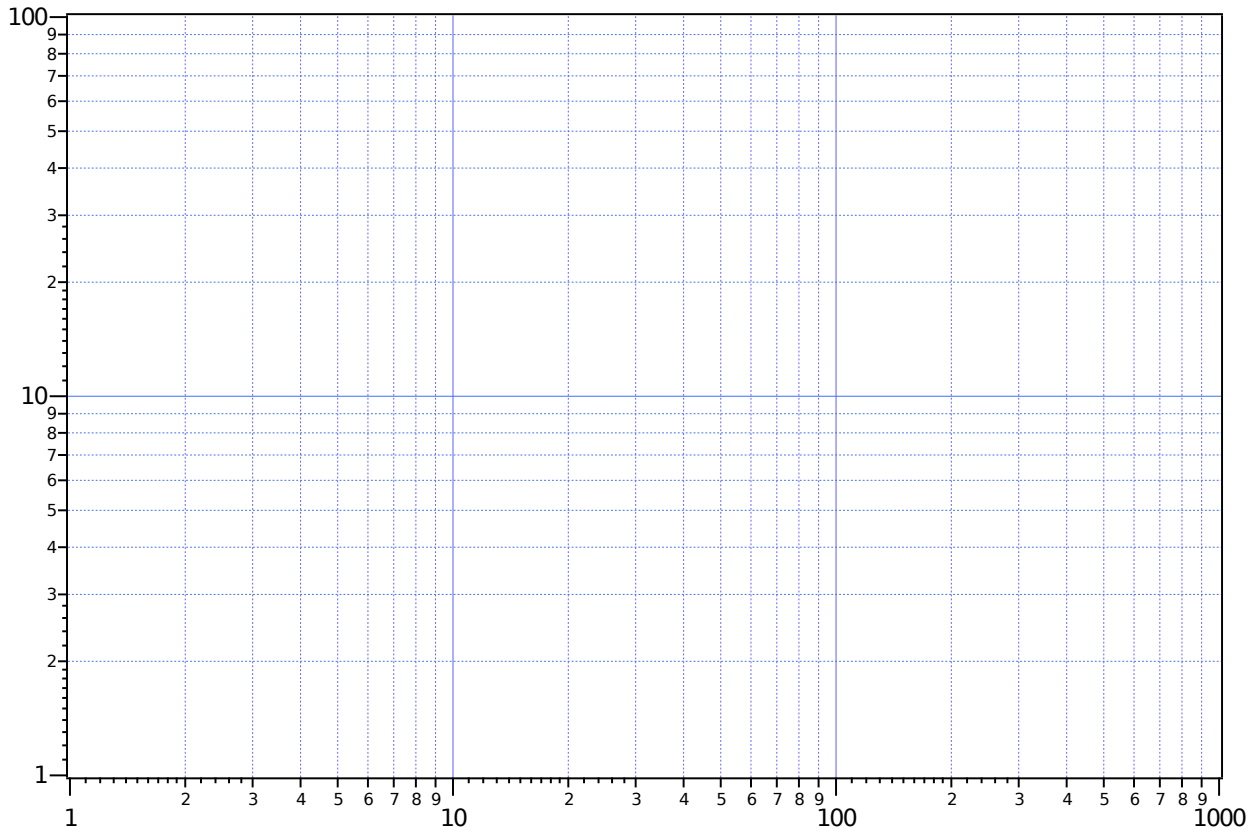
**Part C. Critical exponent (3.5 points)**

**C.1** (1.1 pt)


**C.2** (1.0 pt)

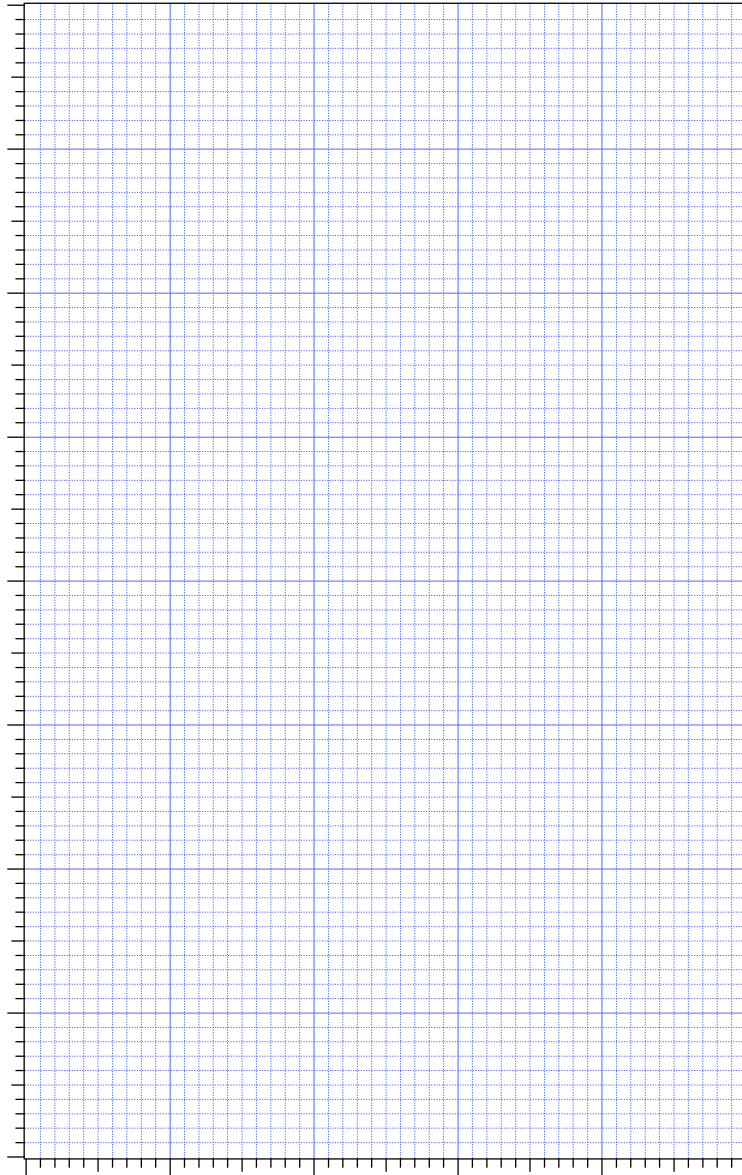
Plot  $\left| \frac{N_1 - N_2}{N_1 + N_2} \right|$  vs.  $|A_{\text{crit}}^2 - A^2|$  in either **Graph C.2a** or **Graph C.2b**.

**Graph C.2a double logarithmic paper**





**Graph C.2b linear paper**



**C.3** (1.4 pt)

$b =$

$\Delta b =$