実験 第 2 問: 熱変形表面 (thermos-deformation) によるレーザ光干渉

パート A [0.8 点]

A.1 (0.3 pt)

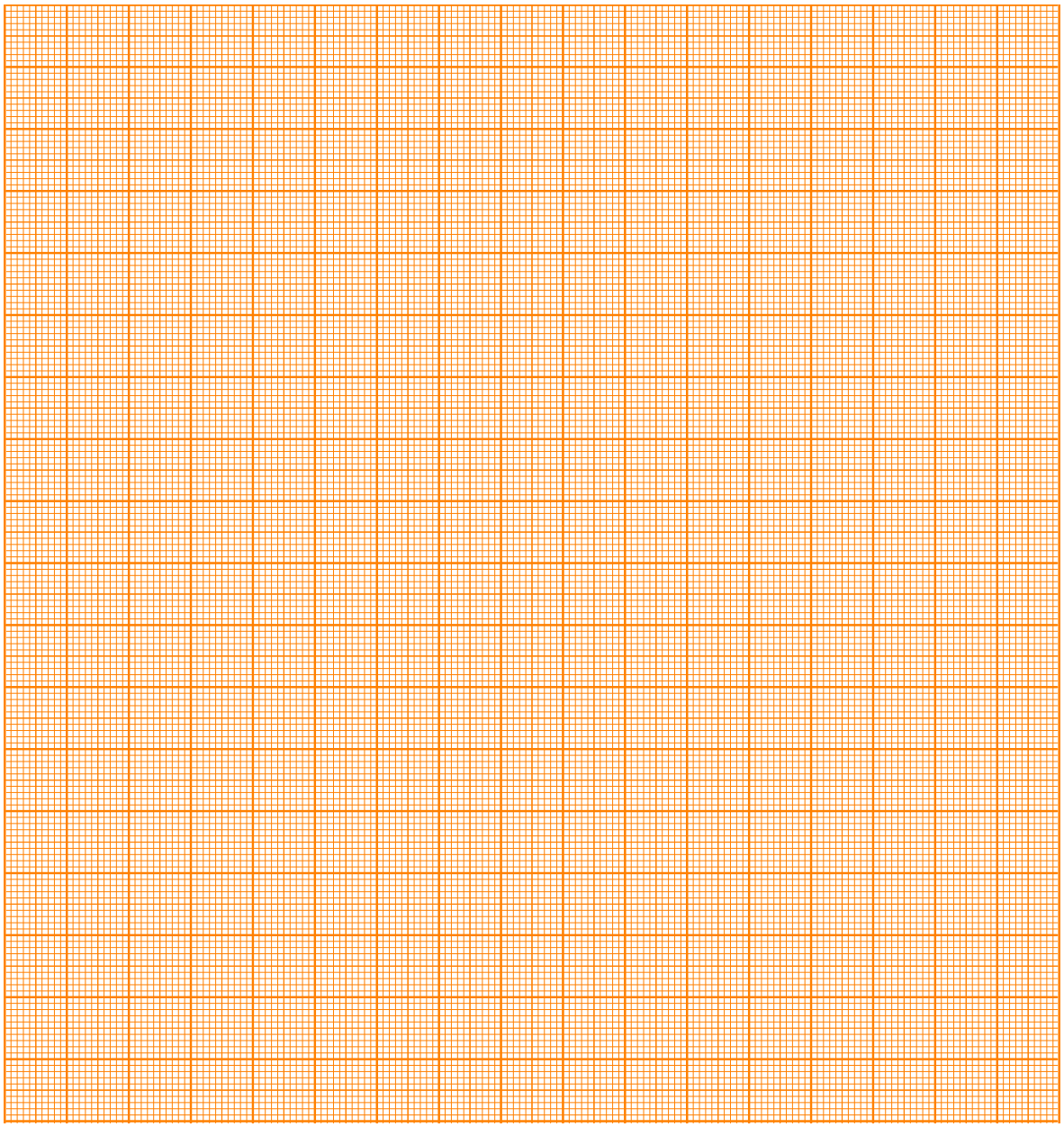
A.2 (0.5 pt)

パート B [3.5 点]

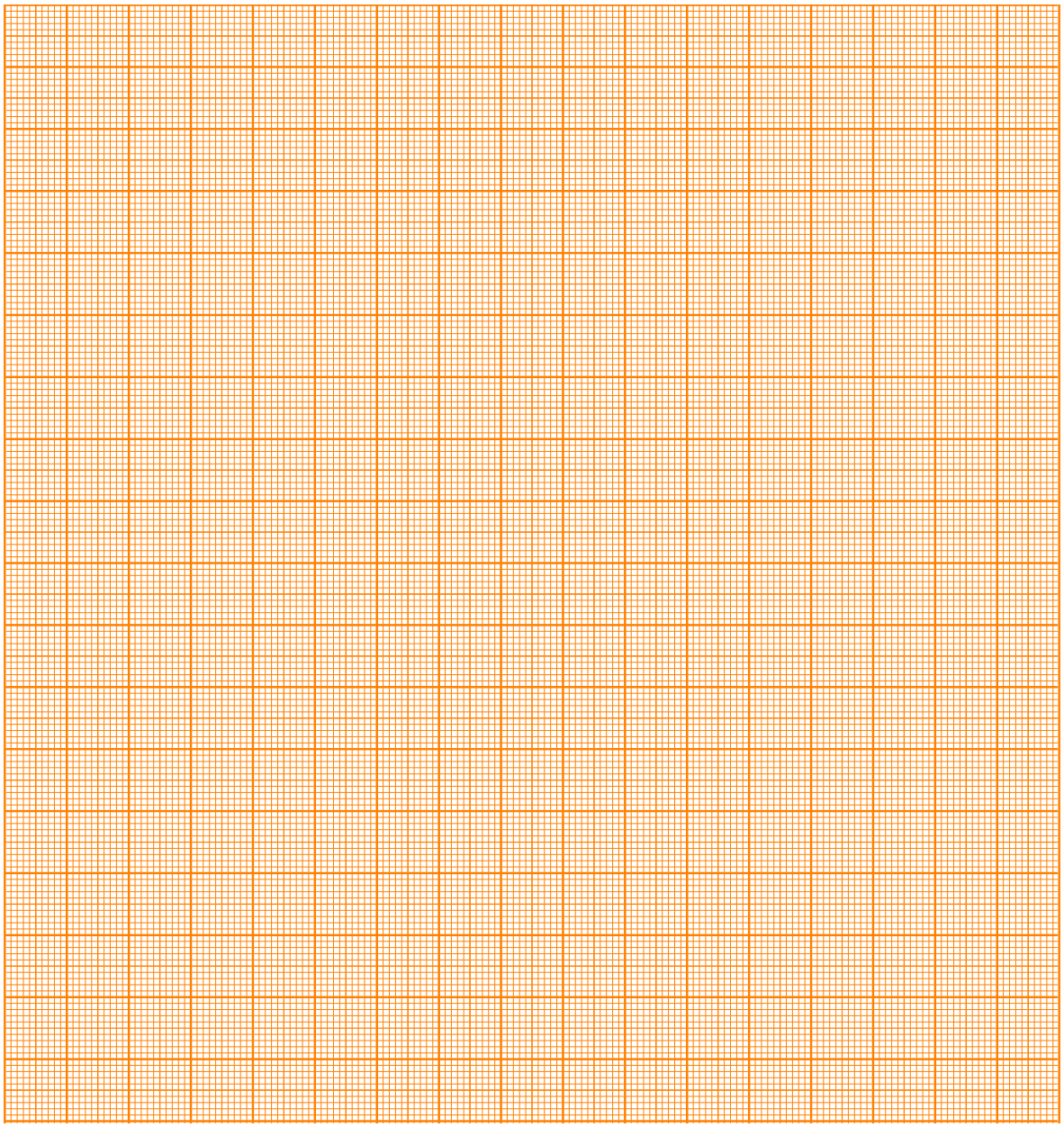
B.1 (1.5 pt)
$p < p_{max}$ を満たす範囲内で測定しなさい.

	電圧 V / V	電流 I /mA	電力 $P = V \cdot I$ /mW	干渉縞の直径 / mm	干渉縞の数
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

B.2 (1.0 pt)



B.3 (1.0 pt)



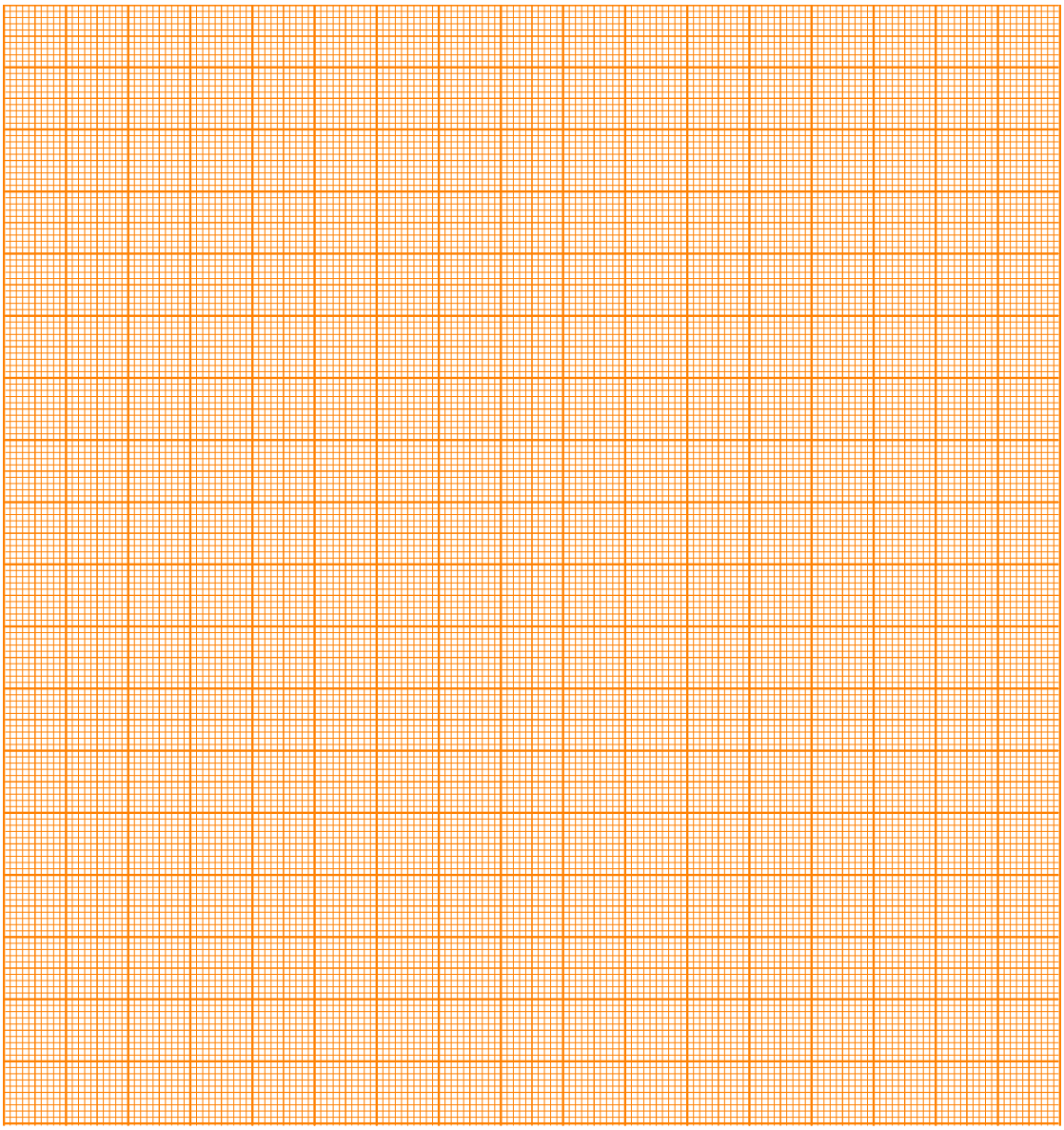
パート C [3.7 点]

C.1 (1.2 pt)

$P =$

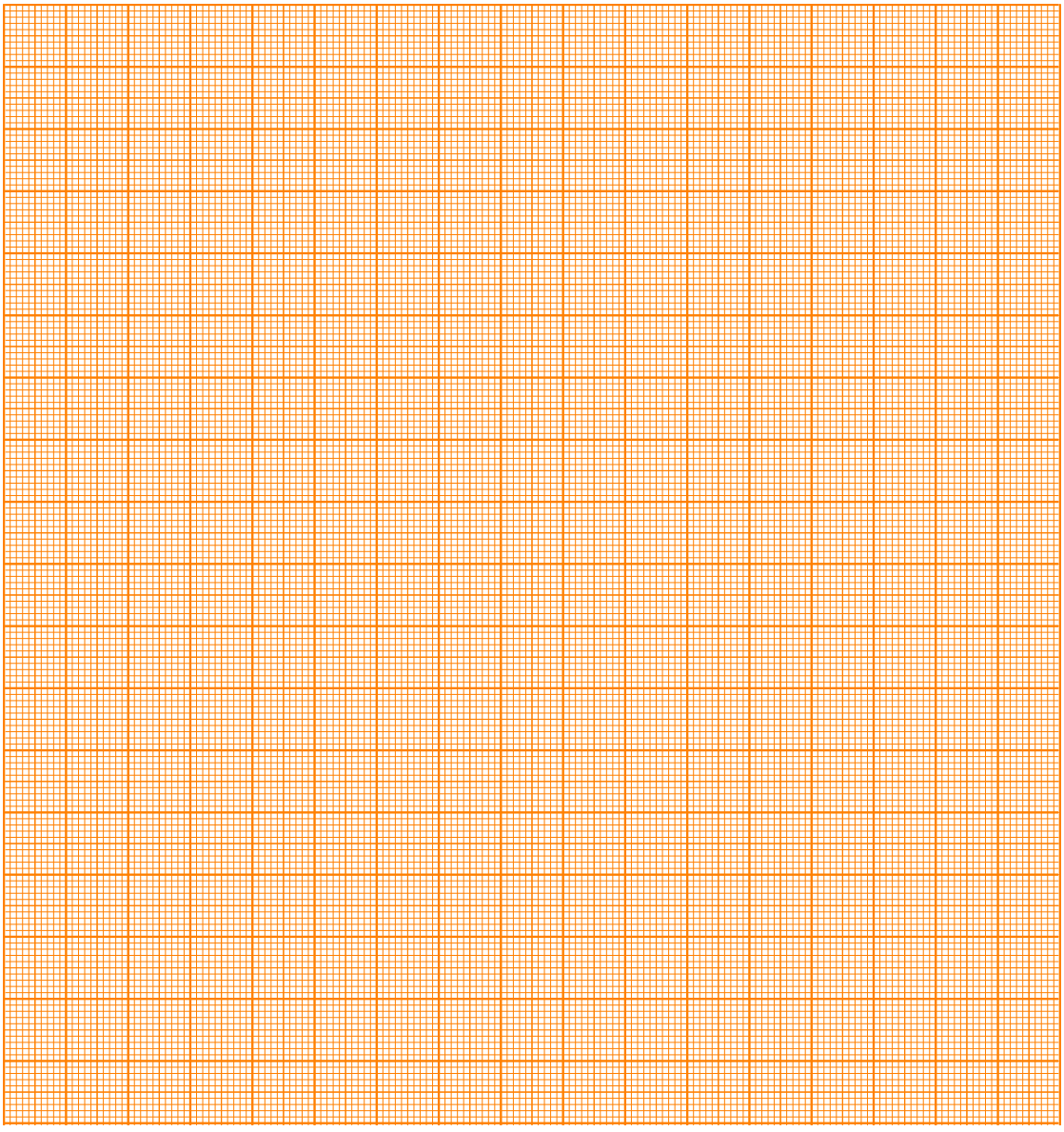
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

C.2 (1.0 pt)
干渉縞の数が判別できる箇所で角度に関する線形のグラフを書くこと.



C.3 (0.5 pt)

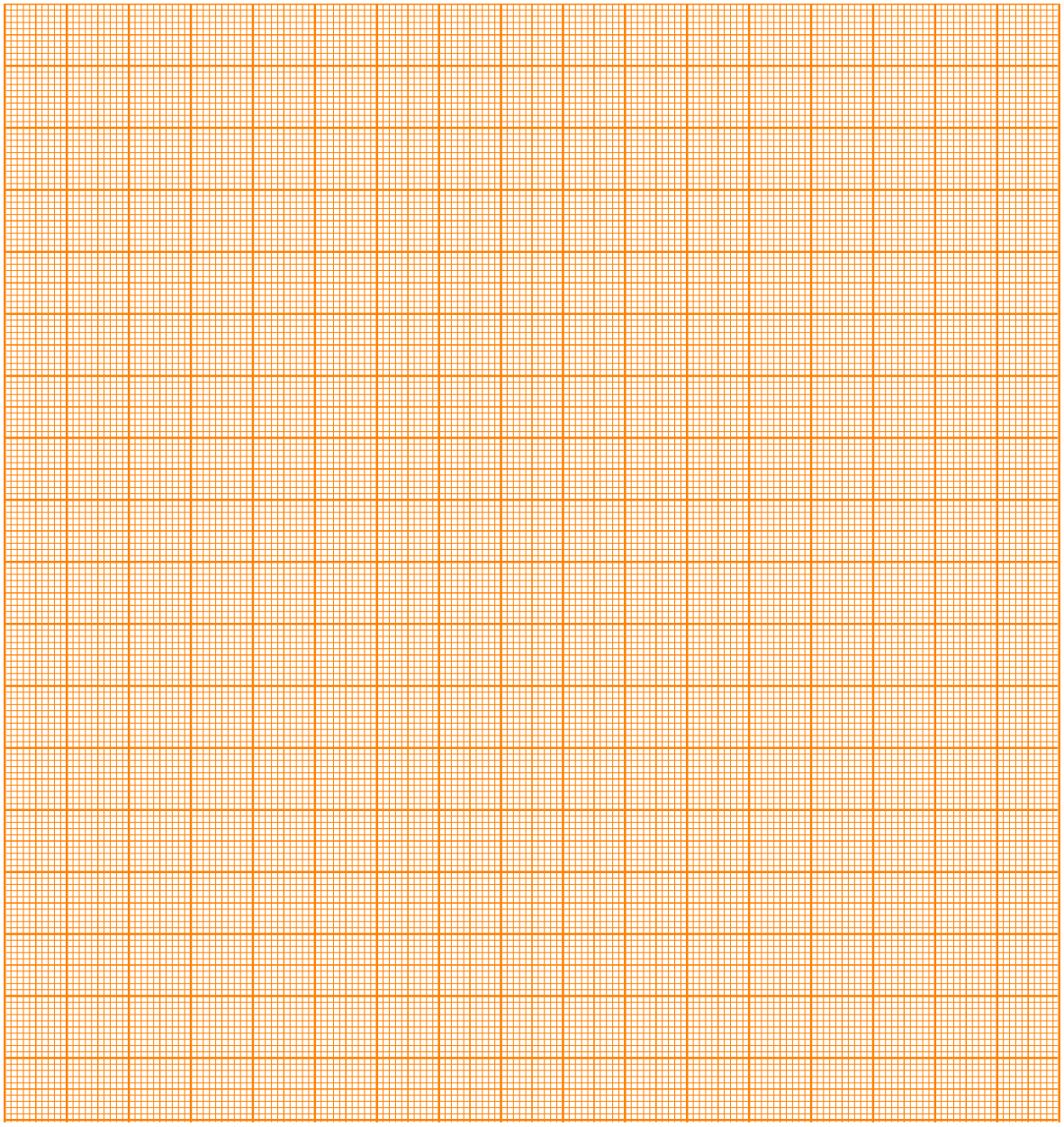
C.4 (1.0 pt)
干渉縞の数の関数としての角度幅のグラフを作成する。



パート D [2.0 点]

D.1 (1.4 pt)

D.1 (cont.)



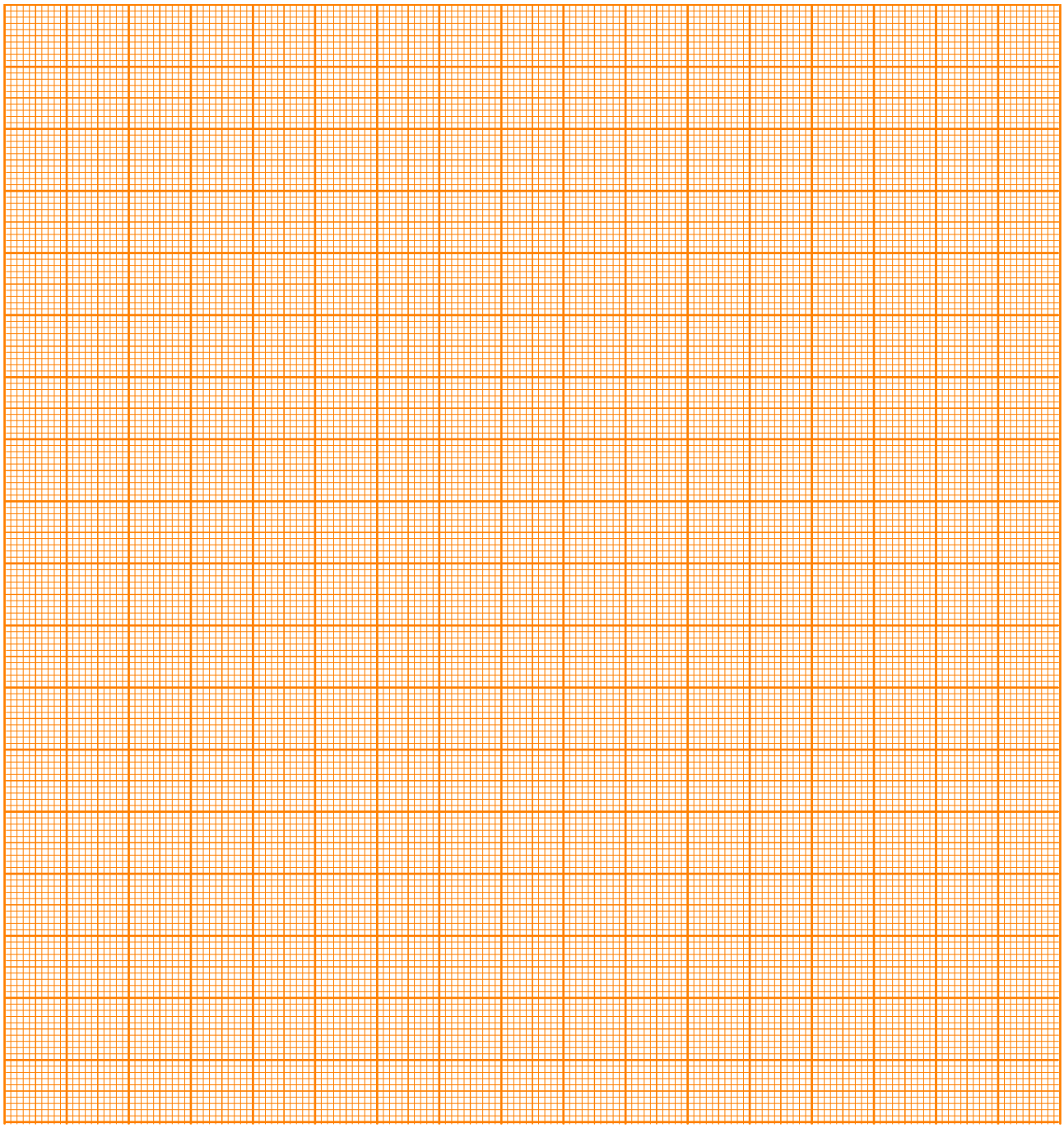
D.2 (0.6 pt)

Experiment

A2-13

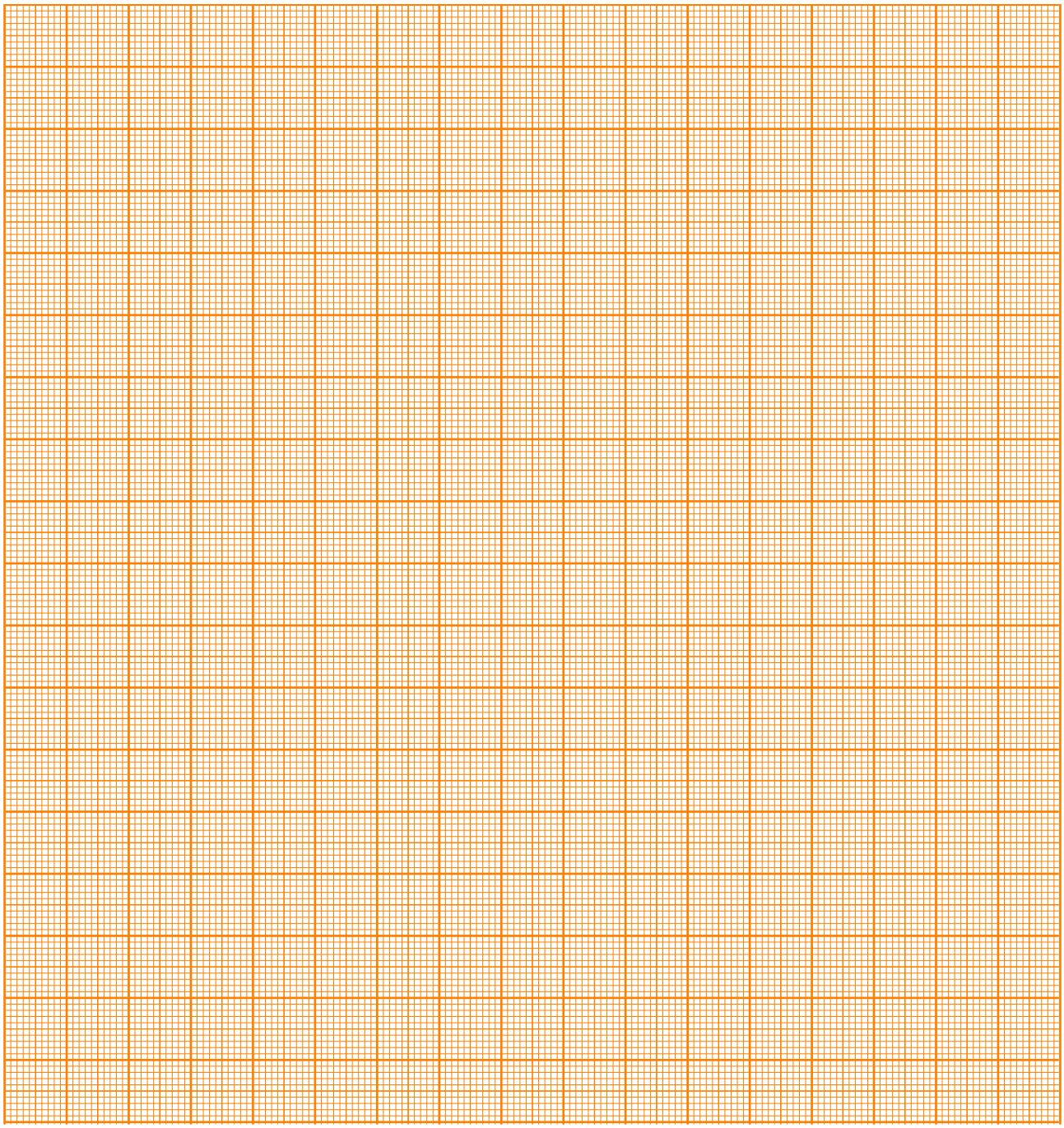
Japanese (Japan)

予備のグラフ用紙



A2-14

予備のグラフ用紙

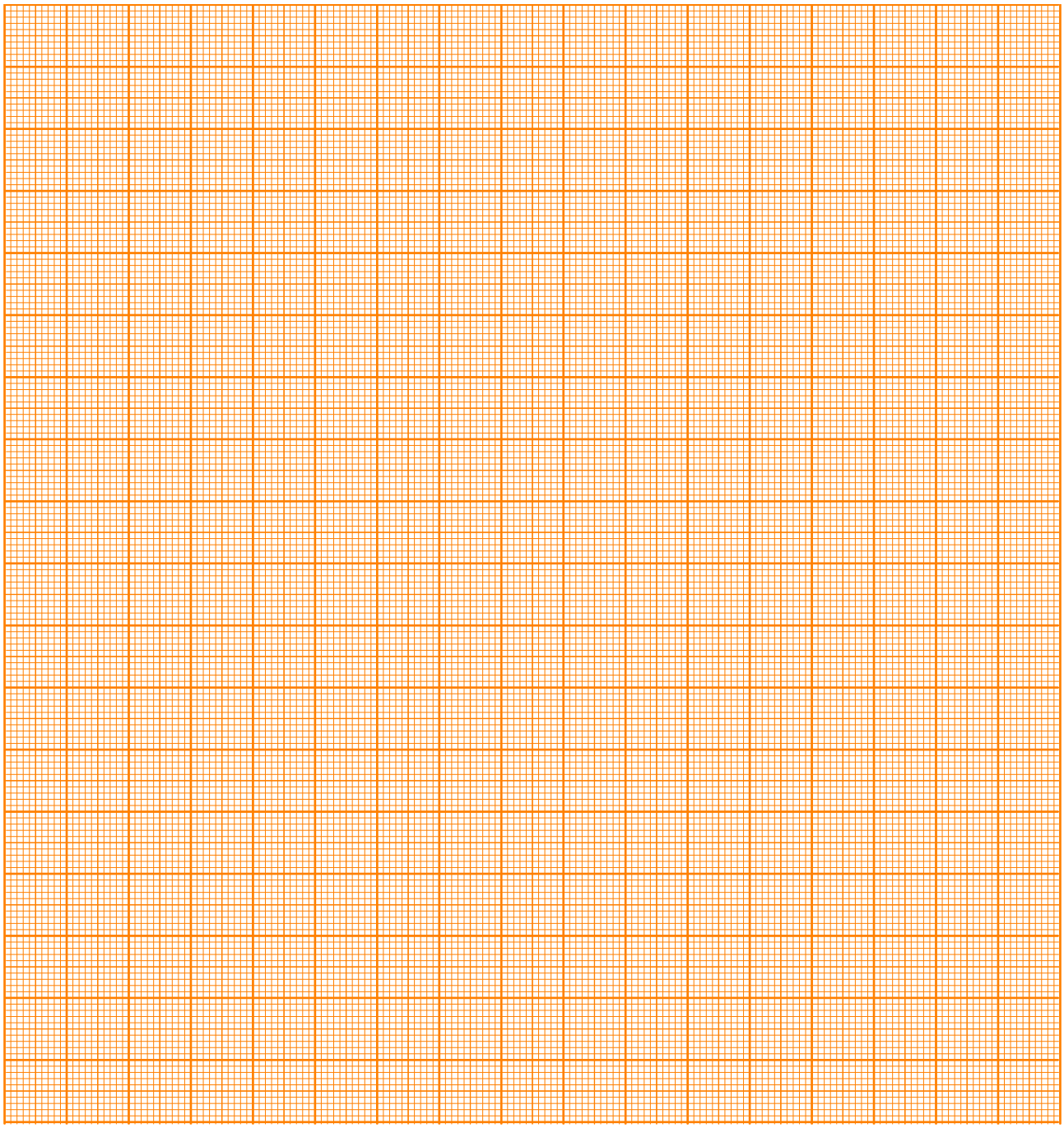


Experiment

A2-15

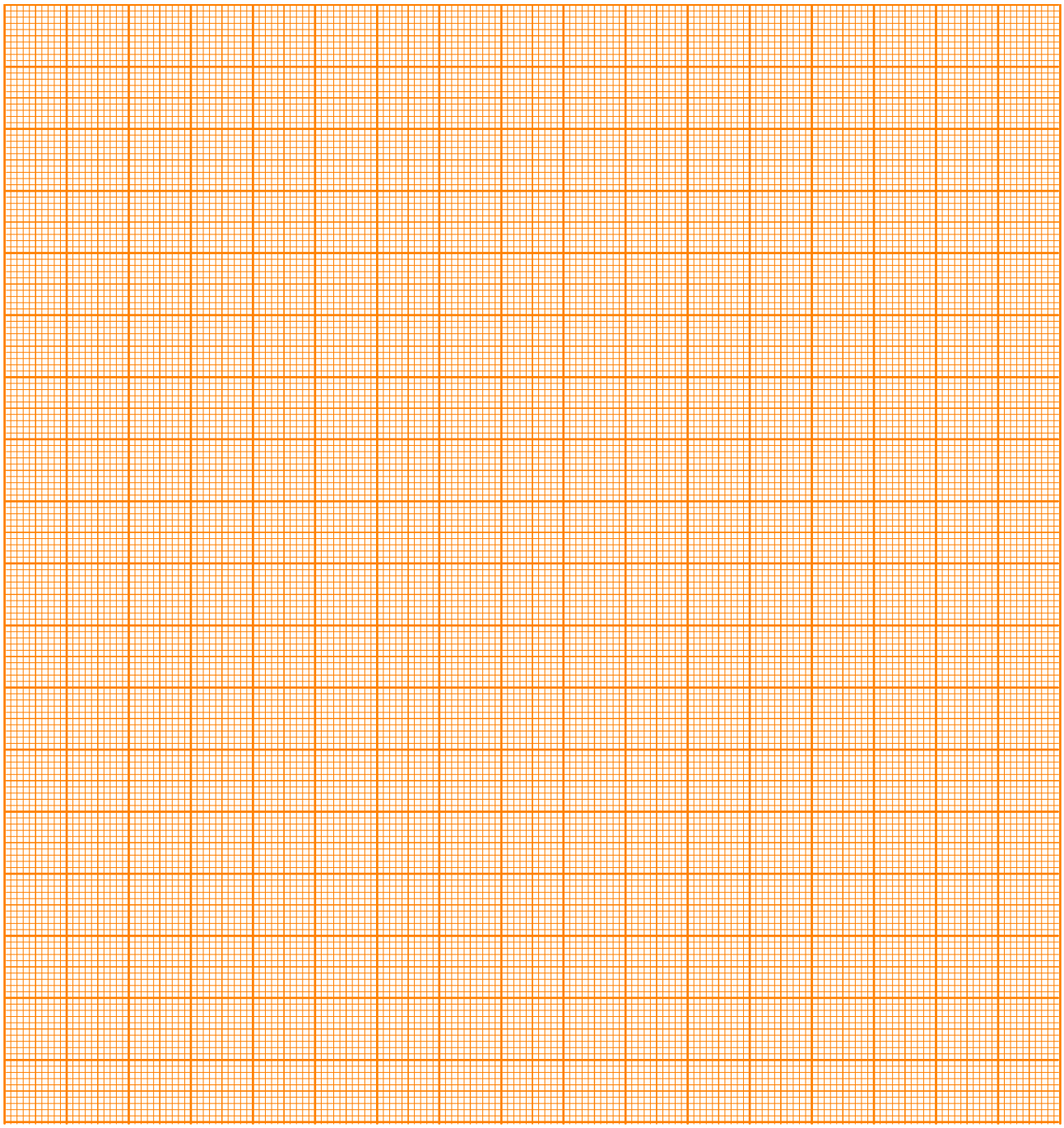
Japanese (Japan)

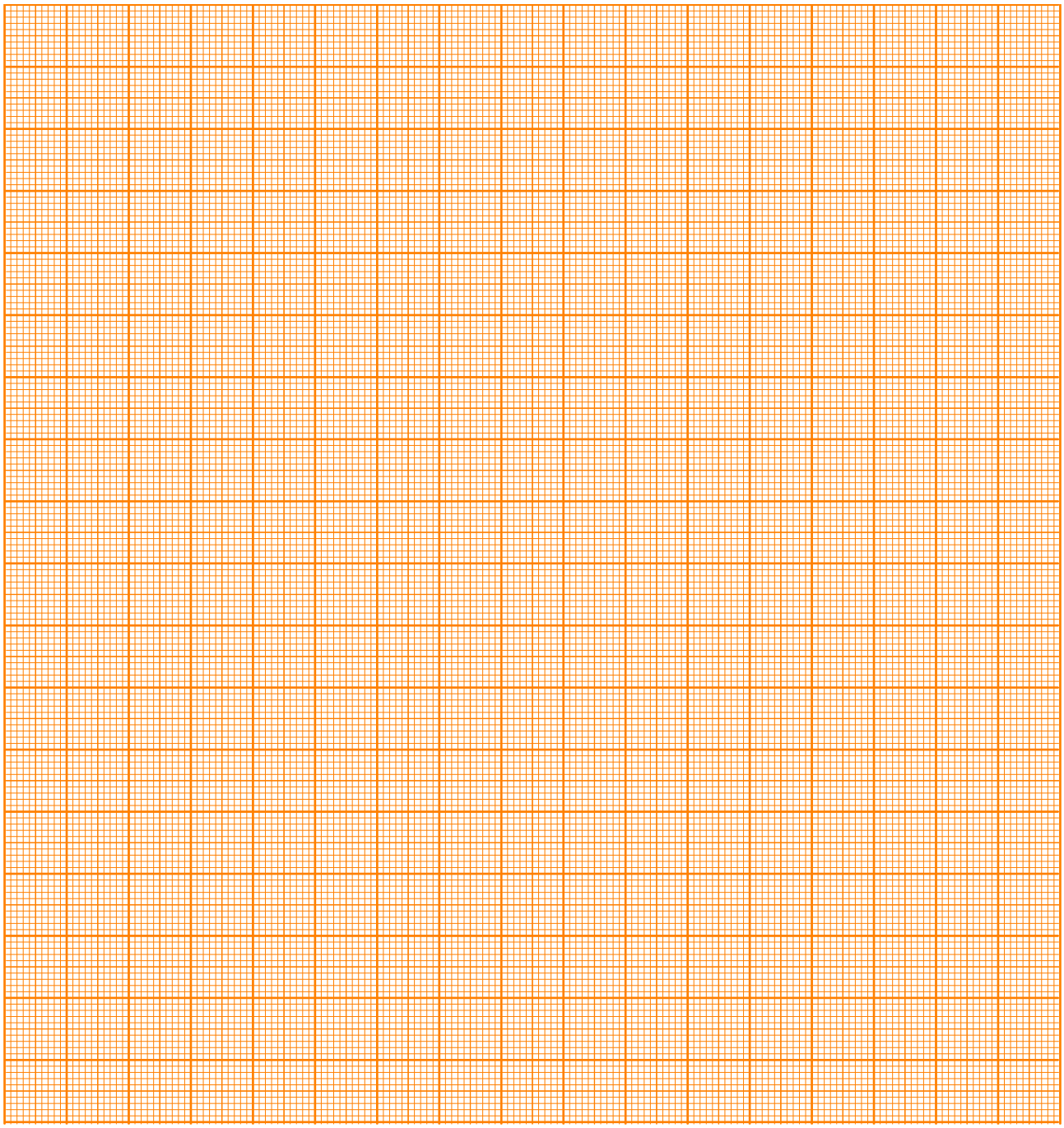
予備のグラフ用紙



A2-16

予備のグラフ用紙



A2-17

予備のグラフ用紙