

Experiment



A2-1  
Japanese (Japan)

## 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)

**Experiment**



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**A.2** (0.5 pt)

# Experiment



# A2-3

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## 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 |            |             |                         |             |       |

**Experiment**

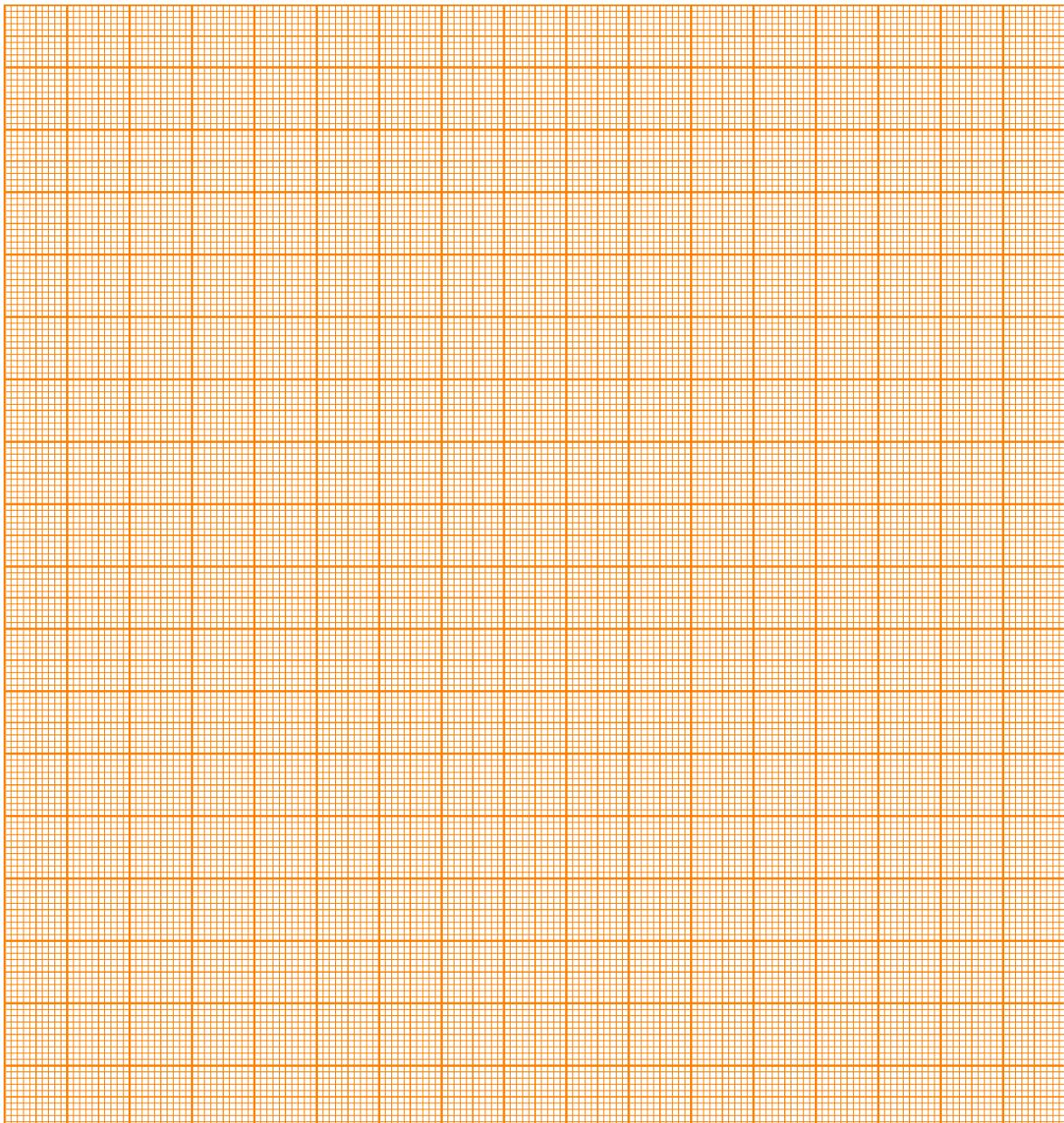


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**B.2** (1.0 pt)

A large rectangular grid of squares, likely provided for students to draw freehand sketches or plots. The grid consists of approximately 20 columns and 25 rows of small squares, with a thicker outer border.

**B.3** (1.0 pt)



# Experiment



# A2-6

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## パート C [3.7 点]

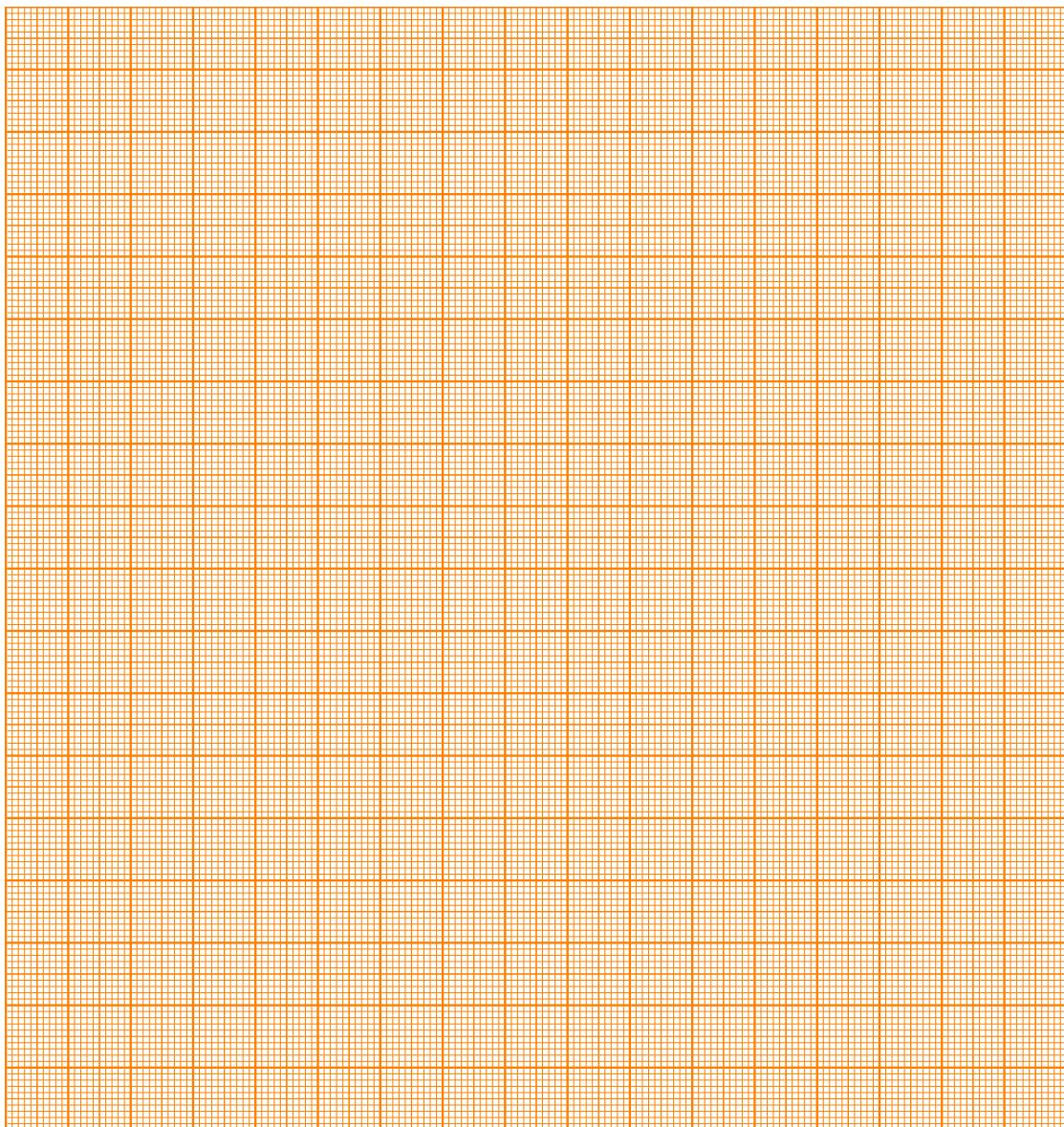
C.1 (1.2 pt)

$P =$

|    |  |  |
|----|--|--|
| 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.



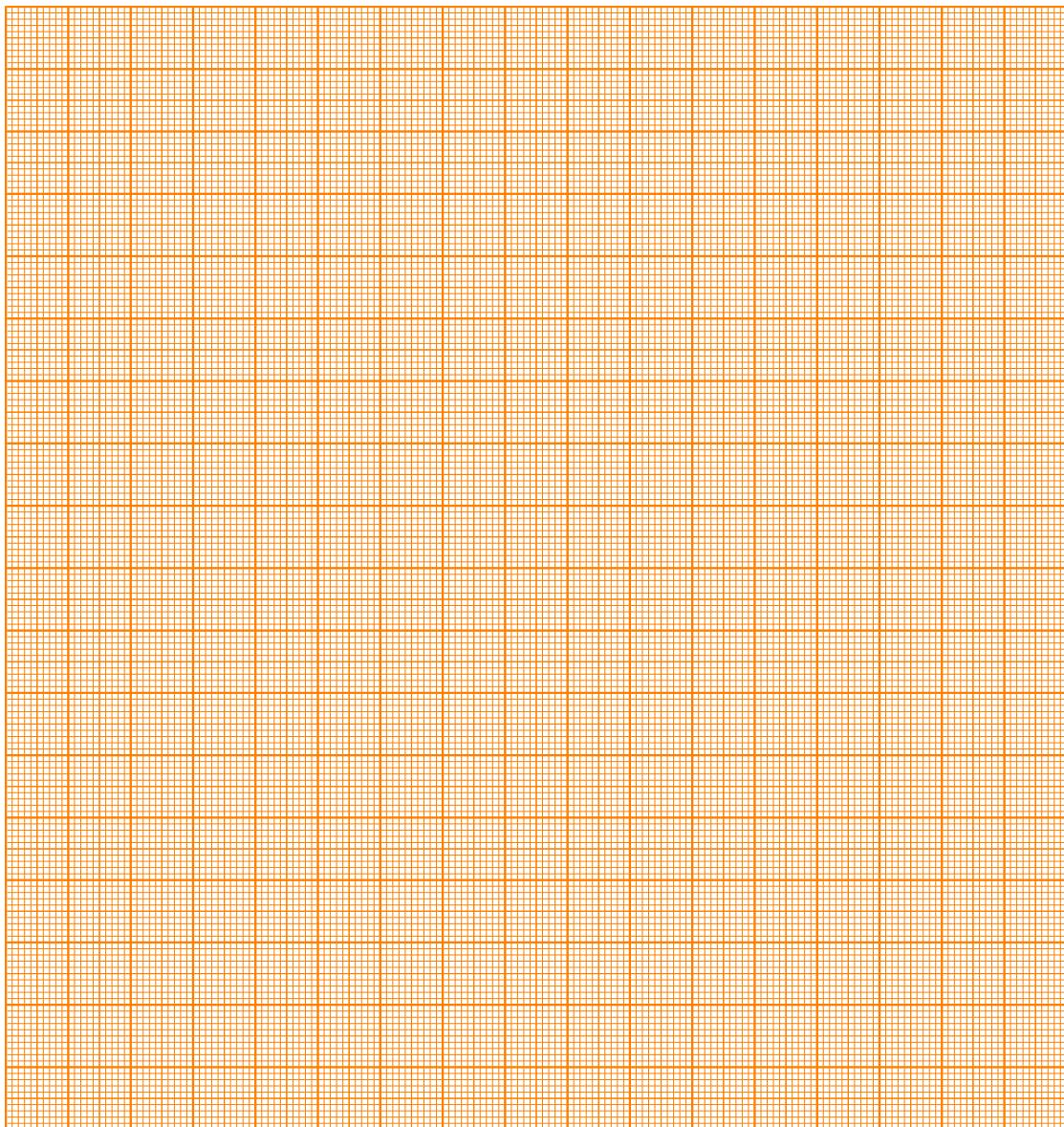
**Experiment**



**A2-8**  
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**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)

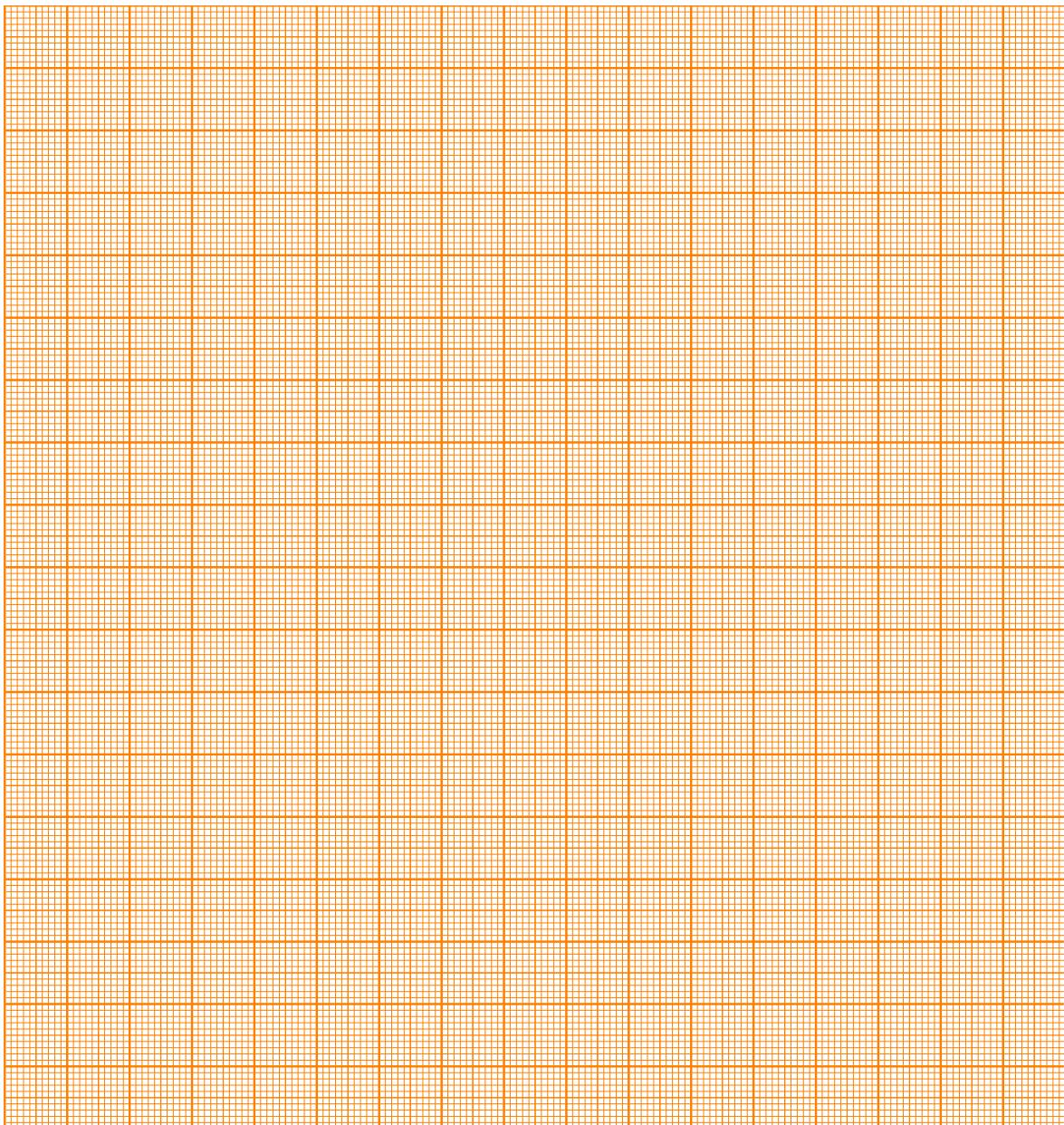
**Experiment**



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**D.1 (cont.)**



**Experiment**



**A2-12**  
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**D.2** (0.6 pt)

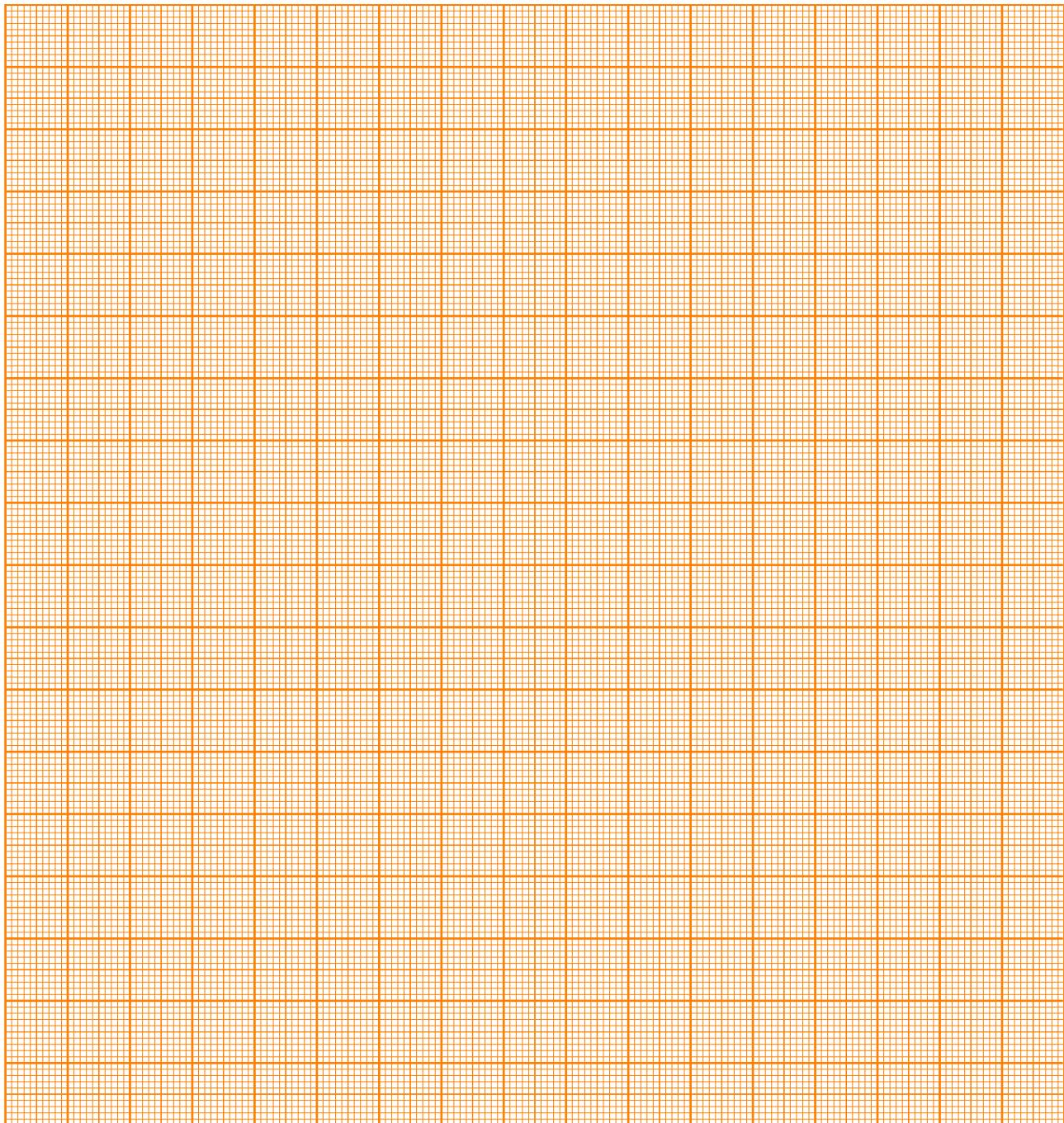
Experiment



A2-13

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予備のグラフ用紙



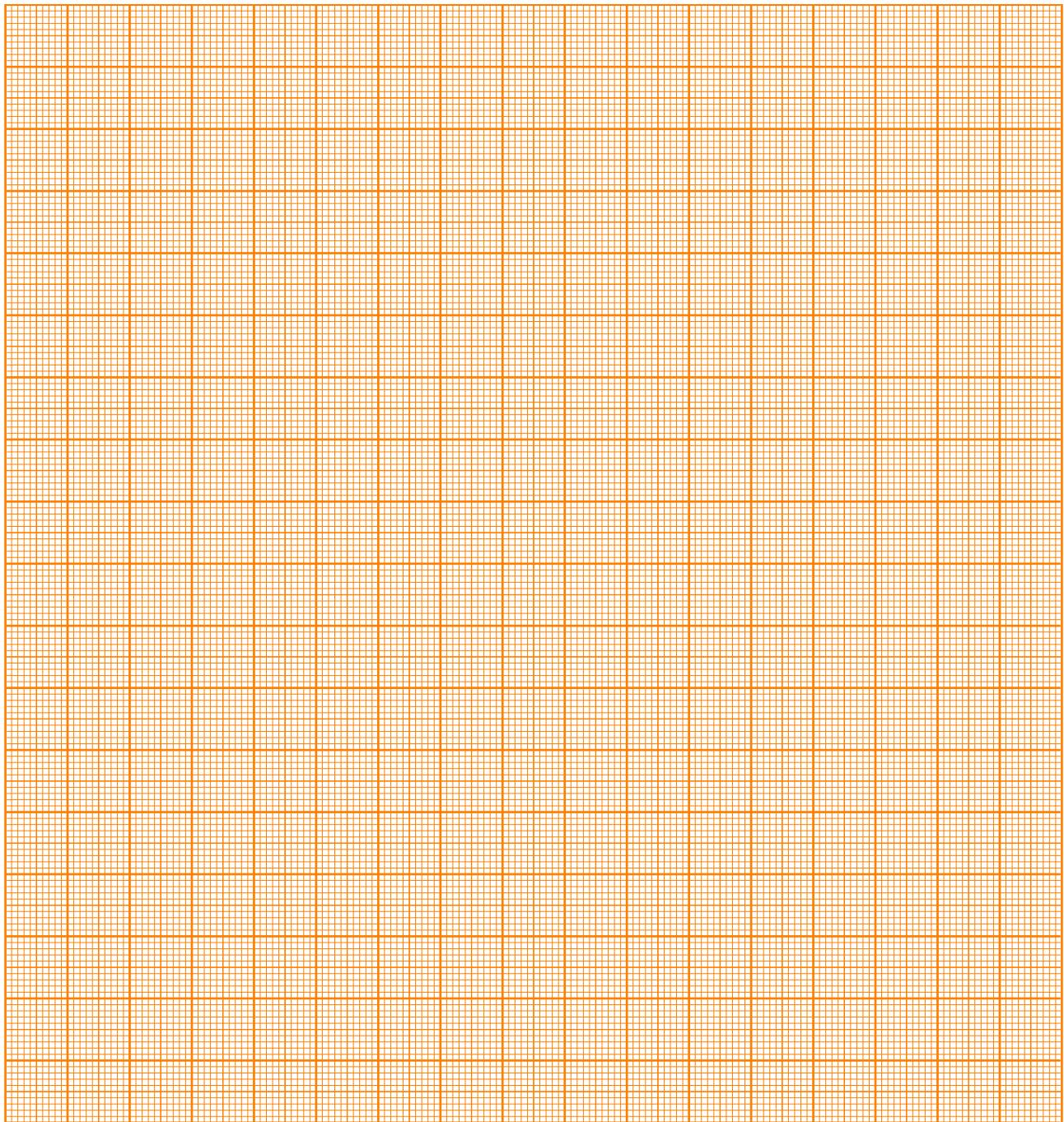
Experiment



A2-14

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予備のグラフ用紙



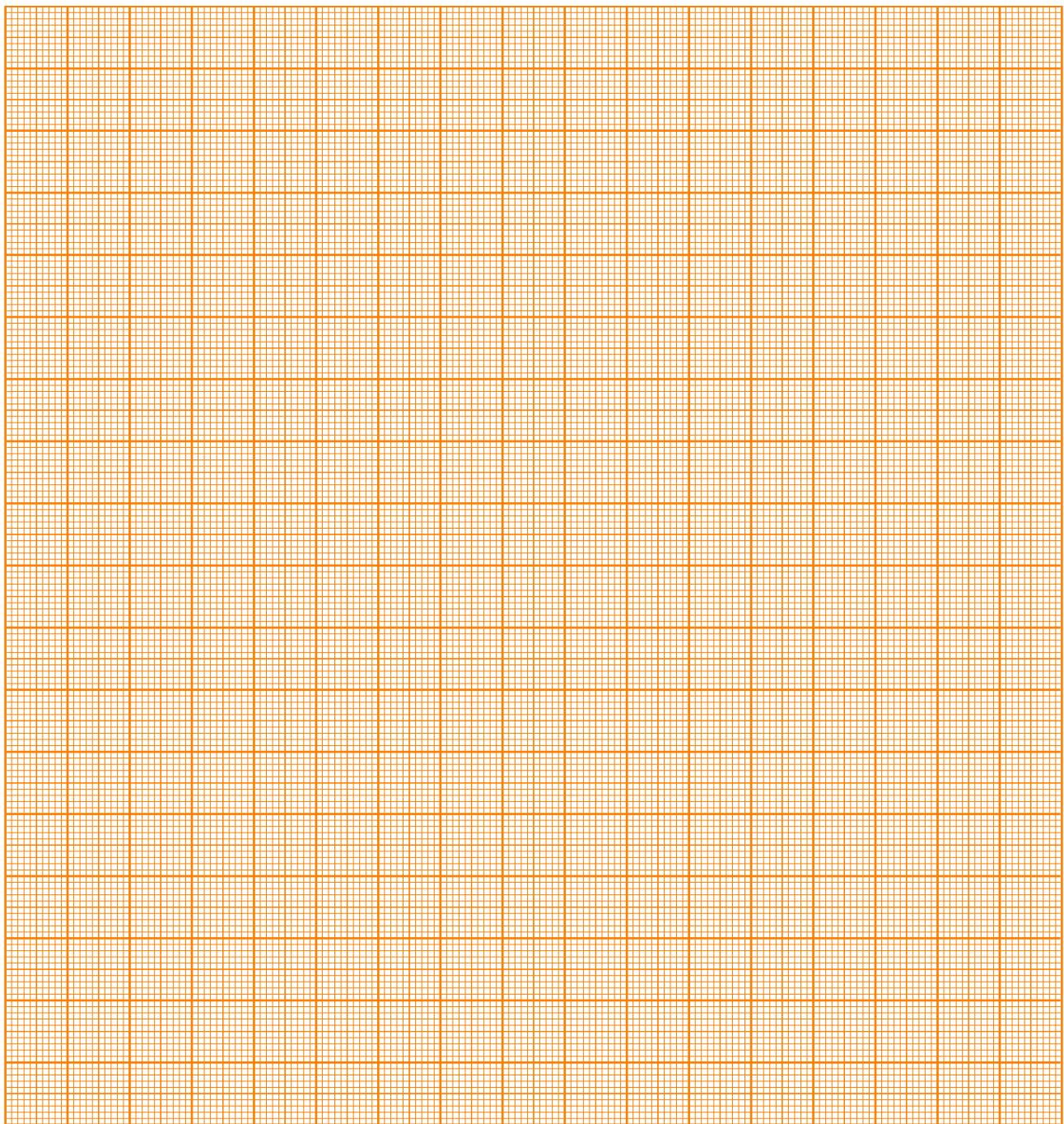
Experiment



A2-15

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予備のグラフ用紙



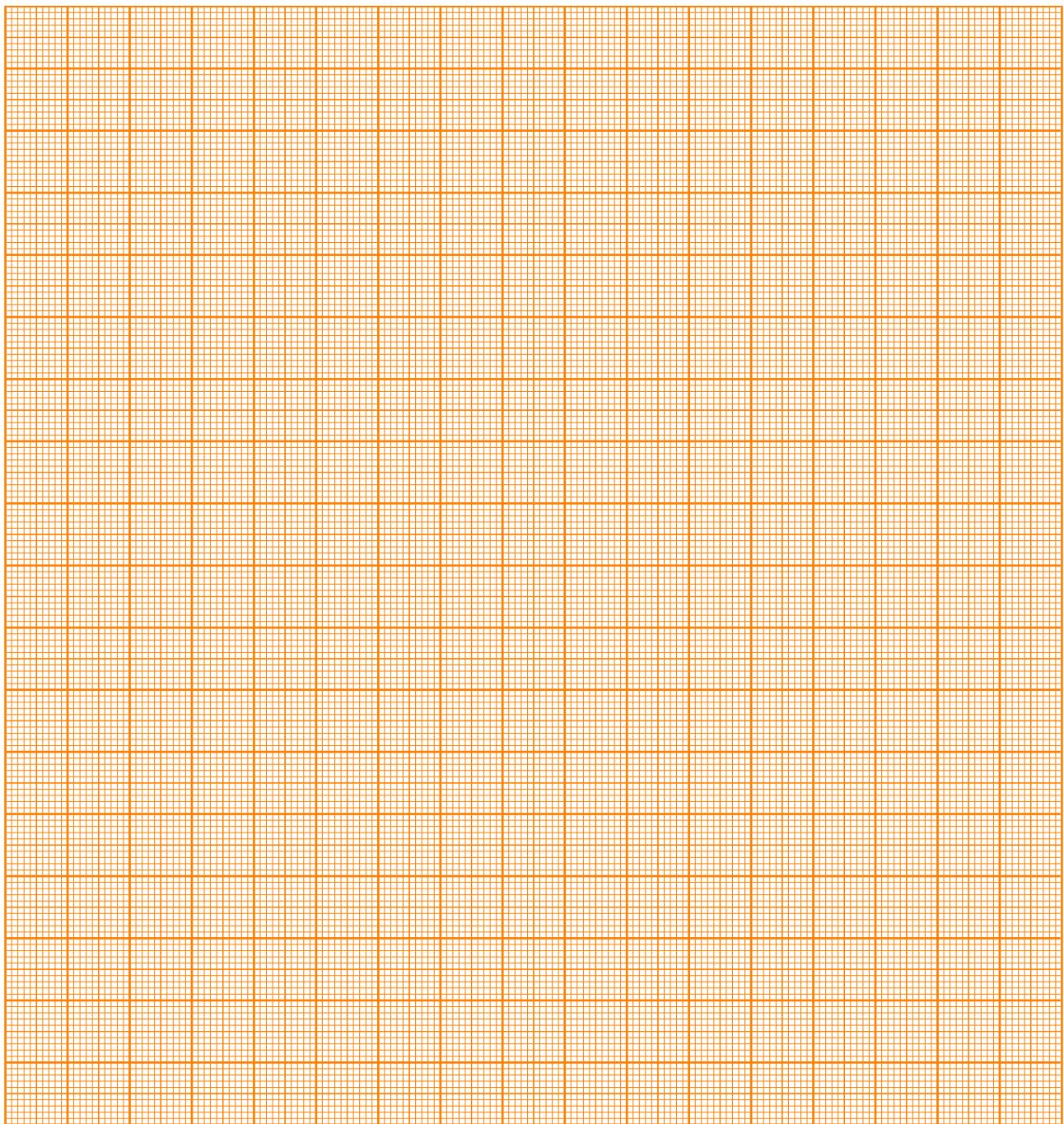
Experiment



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予備のグラフ用紙



Experiment



A2-17

Japanese (Japan)

予備のグラフ用紙

