

②

$$\frac{11}{1210} R_{11} \quad \frac{11^2}{1210} R_{12} \quad \frac{11^3}{1210} R_{121} \quad \frac{11^4}{1210} R_{121} \quad \dots \quad \frac{11^{11}}{1210} R = 121$$

③

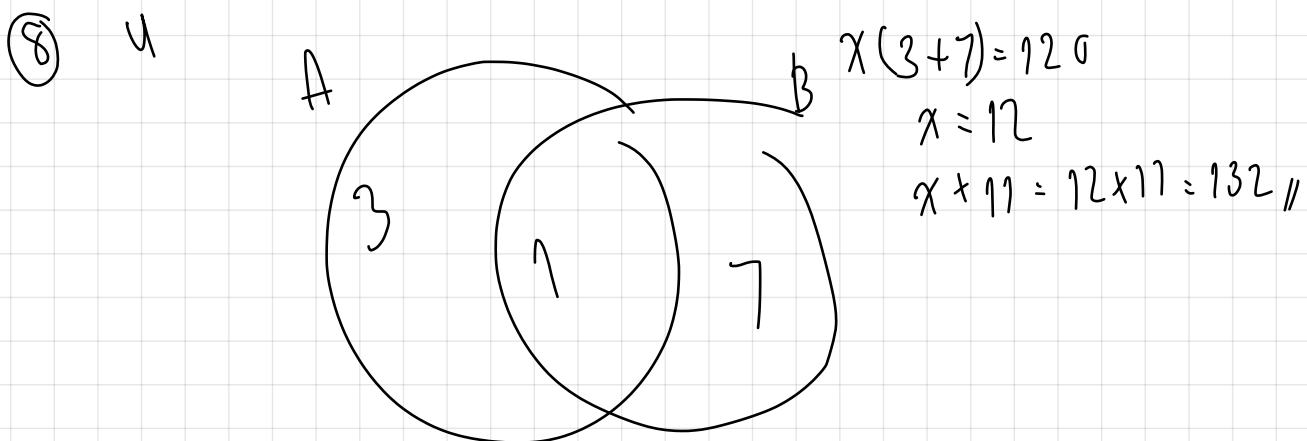
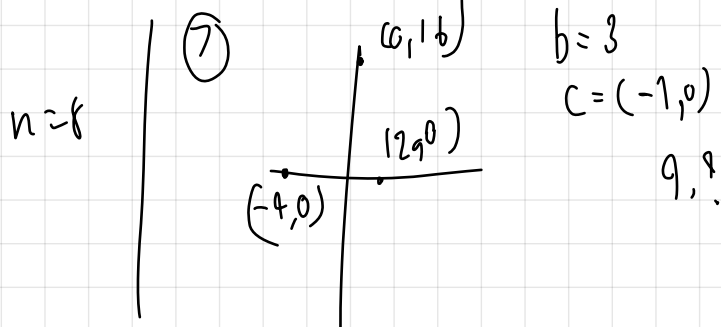
$$\begin{aligned} a_3 - a_1 &= 3 & -a_7 + a_1 &= -3 & -a_4 - a_3 + (16) &= -6 & a_7 + a_8 &= 28 \\ a_4 - a_2 &= 3 & -a_4 + a_2 &= -3 & -a_4 - a_3 &= -16 & a_9 + a_{10} &= 34 \\ & & & & a_4 + a_3 &= 16 & & \vdots & 40 \\ & & & & & & & \vdots & 46 \\ & & & & & & & \vdots & 52 \\ & & & & & & & \vdots & 58 \\ & & & & & & & \vdots & 64 \\ & & & & & & & \vdots & 70 \\ & & & & & & & \vdots & 76 \\ & & & & & & & \vdots & 82 \\ & & & & & & & \vdots & 88 \\ & & & & & & & \vdots & 94 \\ & & & & & & & \vdots & 100 \\ & & & & & & & \vdots & 106 \\ & & & & & & & \vdots & 112 \\ & & & & & & & \vdots & 118 \\ & & & & & & & \vdots & 124 \end{aligned}$$

} = 1340

$$\begin{aligned} a_5 - a_3 &= 3 & -a_5 + a_3 &= -3 & -a_5 - a_6 + (16) &= -6 \\ a_6 - a_4 &= 3 & -a_6 + a_4 &= -3 & -a_5 - a_6 &= -22 \\ & & & & a_5 + a_6 &= 22 \end{aligned}$$

⑤ $2 + 4 + 8 + 16 = 30$ 510

$$\begin{array}{r|l} 32 & 5 \\ 64 & 6 \\ 128 & 7 \\ 256 & 8 \end{array}$$



9) $1-x < -\frac{3}{7} < 7-x$
 $1 < x - \frac{3}{7} < 7$
 $1 + \frac{3}{7} < x < 7 + \frac{3}{7}$

$x = 2, 3, 4, 5, 6, 7 \quad n=6$

13) 40 ppl 1
 A 65 * 19
 B 62 * 20 ← middle
 C 60 * 21
 40

$\frac{64+20}{2} = 61$

14) 11% 40%
 $= 11\% \times 800 \times \frac{140}{100} = 1120$
 11% 50% 140 = 2240

15) $20000 \times 15\% = 3000$
 $30000 \times 20\% = 6000$
 $150 + 200 = 350$

16) 1 33

5) 4 8 12 16 20 24
 6 10 18 30 46 66 90

6) 5 7 4 8 3 9

7) 2 4 8 16 32
 1 3 7 15 31 63

8) 9 ^{x2} 18 ^{x2} 36 ^{x2} 72 ^{x2} 144 ^{x2} 288
 -4 -4 -4

10) A B C D
 AD 1st & 2nd
 BC 3rd & 4th
 AC 1st & 4th

12) $N(t) = N_0 \left(\frac{1}{2}\right)^{\frac{t}{T}}$
 $5 = 640 \left(\frac{1}{2}\right)^{\frac{t}{4.5 \times 10^9}}$
 $t = 3.15 \times 10^{10}$

18

A	B	(C) $\Delta \downarrow \downarrow \downarrow$
L	X	Y
	_{m/s}	_{m/s} m
S	Y M	L
M	L	X S

22

A	22.2
B	30.6
C	27.3



JB

24

P - A

C	<u>F</u>	<u>D</u>	<u>B</u>	<u>O</u>	<u>A</u>	<u>O</u>
				5	1	7

25

25

BPM

eye	66
out	76
come	(56)
eye	85