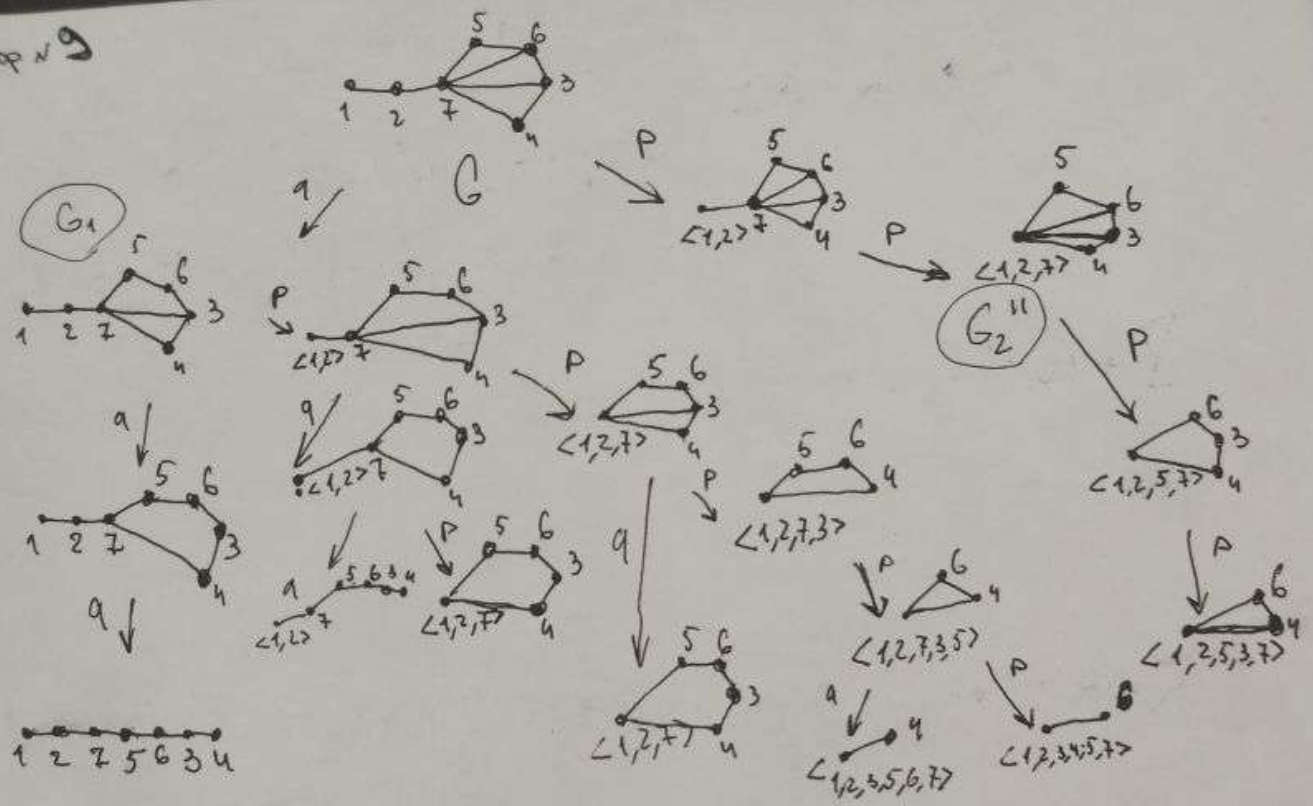
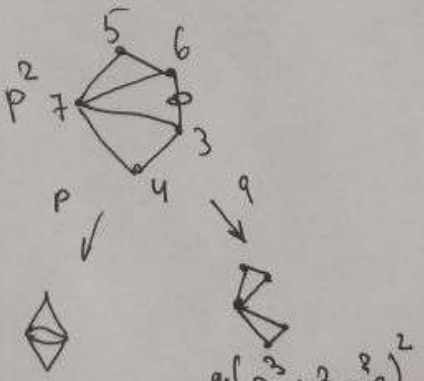
Граф №9



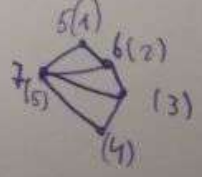
$$R(G) = qR(G_1) + p^2 R(G_2^u)$$

В задании немного запутался



$$p^2 \cdot \left[p\left(p^6 + 6p^5q + 13p^4q^2 + 8p^3q^3\right) + q\left(p^3 + 3p^2q\right)^2 \right]$$

$$p^2 \left[p\left(p^6 + 6p^5q + 13p^4q^2 + 8p^3q^3\right) + q\left(p^6 + 6p^5q + 9p^4q^2\right) \right.$$



$$p \cdot \left(p^6 + 6p^5q + 13p^4q^2 + 8p^3q^3\right)$$

$$q \cdot \left(p^3 + 3p^2q\right)^2$$

$\langle 1,2 \rangle : p \cdot 2$

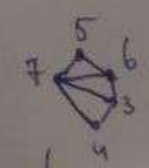
$\langle 1,5 \rangle : \langle 7,5 \rangle \cdot p^2$

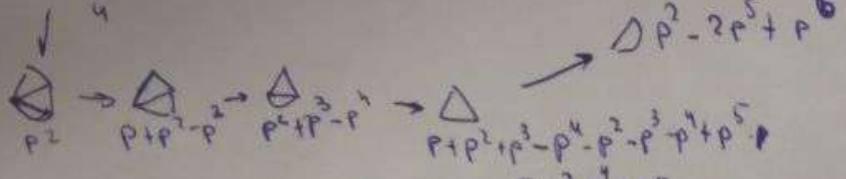
$\langle 1,3 \rangle : \langle 7,3 \rangle p^2$

$\langle 2,5 \rangle \dots \cdot p$

$\langle 2-3 \rangle \dots \cdot p$

$$\begin{matrix} 0&1&0&0&1 \\ 1&0&1&0&1 \\ 0&1&0&1&1 \\ 0&0&1&0&1 \\ 1&1&1&1&0 \end{matrix} \qquad \begin{matrix} -2&1&0&0&1 \\ 1&-3&1&0&1 \\ 0&1&-2&1&1 \\ 0&0&1&-2&1 \\ 1&1&1&1&-4 \end{matrix}$$

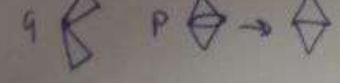


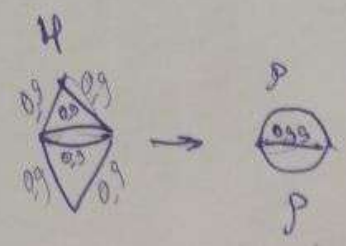


$$p^2 \to p + p^2 - p^2 \to p^2 + p^3 - p^3 \to p + p^2 + p^3 - p^4 - p^2 - p^3 + p^4 + p^5$$

$$p - 2p^4 + p^5$$

$$\Delta\, p^2 - 2p^5 + p^6$$





$$\frac{0,9^2}{2\cdot 0,9\cdot 0,9^2} = \frac{0,81}{0,99} = p \approx 0,81$$

$$R(H) = 0,99\cdot\left(1 - \cancel{0,01}\right)$$

$$= 0,99\left(1 - \left((1-0,99)\cdot(1-p)^2\right)\right) =$$

$$\approx 0,989643$$

H

$$\rightarrow \left(0,9^3 + 3\cdot 0,1\cdot 0,81\right)^3 = 0,91833$$

$R(H)$ ↗

$\cdot 0,81$

$$R = \left(R(H)\cdot R(H)\right)\cdot 0,81 = 0,91833\cdot 0,989643\cdot 0,81 = 0,736143273513$$

$(p^3 + 3p^2q)^2$

S

20

E