$$1 - (a+b) = C$$
,
 $2 - (2a+b) = C_2$
 $3 - (3a+b) = C_3$

$$\sum \ell^{2} = (|-(a+b)|^{2} + (2-(2a+b))^{2} + (3-(3a+b))^{2}$$

$$= |-2(a+b) + (a+b)^{2} + 4 - 4(a+b) + (2a+b)^{2} + 4$$

$$= |-6(3a+b)| + (3a+b)^{2}$$

 $1 - 2a - 2b + a^{2} + 2ab + b^{2} + 4 - 8a - 4b + 4a^{2} + 4ab + b^{2} + 9 - 18a - 6b$ $+ 9a^{2} + 6ab + b^{2} = 14a^{2} - 28a + 3b^{2} - 12b + 12ab + 14$

$$\frac{6f}{6g} = 26g - 28 + 12b$$

$$\frac{6f}{6b} = 6b - 12 + 12a$$