G)
$$B = cov(u_1, u_3) = cov(u_1, \frac{1}{2}(u_1 + u_2) + w_3)$$

cle composition of us into breeding values of parents

$$= cov(u_1, \frac{1}{2}u_2) \longrightarrow 0$$

$$+ |cov(u_1, \frac{1}{2}u_2)| \longrightarrow 0$$

$$+ |cov(u_1, \frac{1}{2}u_2)| \longrightarrow 0$$

$$= \frac{1}{2} \cdot cov(u_1, u_1) = \frac{1}{2} \cdot vav(u_1)$$

$$= \frac{1}{2} \cdot \overline{v}^2$$

$$= \frac$$