

$$\frac{1}{2} - \text{edge} = \left[\frac{1}{2} \left(1\emptyset - 2 \text{edge} \right)^2 \right] + \left[\left(\text{edge}_1 - \text{edge}_2 - \text{edge}_3 + \text{triangle}_1 \right)^2 \right] - \text{triangle}_2 \geq 0.$$



