

$\vec{AM} = \lambda \vec{MB} \quad \vec{DN} = \mu \vec{NC}$
 $\frac{65}{12} Q = (1A + \frac{1}{2}P) + (10 + \frac{2}{3}P) + (1C + \frac{1}{4}P) = \frac{5}{2}A_1 + \frac{5}{2}A_1 + \frac{5}{4}C_1$
 $(\frac{1}{c} + \frac{1}{d})P \quad |AP| = |AQ| = a \quad |DP| = |DT| = m \quad \vec{CL} = \alpha \vec{CA}$
 $|PQ| = \frac{36}{65}|PM| \quad |AM| : |MC| = 3:1$
 $\frac{|PA|}{|AA|} = 3 \quad |AP| = |AQ| + |QP| = 10/|QP| \quad (\frac{1}{a} + \frac{1}{c}) \frac{1}{|AZ|} = (\frac{1}{c} + \frac{1}{d}) \frac{1}{|ZP|}$
 $\vec{AP} = (2 + \nu)\vec{AM} + \rho\vec{AA} \quad (\frac{1}{a} + \frac{1}{c})M \quad 1A + \nu P + \rho A = (1 + \nu + \rho)A$
 $12|Z| = 36|ZP| \quad |FZ| = 5|ZA| \quad \rho = \frac{1A + 2F + 1C + 10F}{14} = \frac{(1A + 1C) + (2F + 10F)}{14}$
 $\frac{+3C}{10} + \frac{6B}{10} = \frac{6M + 6B}{10} \Rightarrow Z \in [MB]$
 $\vec{CL} = \alpha \vec{CA} \quad \rho = \frac{(2A + 3B) + 8C}{13} = \frac{5D + 8C}{13} \Rightarrow P \in [CD]$
 $\vec{AM} = \lambda \vec{MB} \quad \vec{DN} = \mu \vec{NC}$
 $(m_1 + m_2 + \dots + m_n)Z = m_1A_1 + m_2A_2 + \dots + m_nA_n$
 $Z \in [AM] \Rightarrow T \in [AN]$
 $A = \frac{\alpha}{1-\alpha} \quad T \in [AM]$
 $\frac{1}{c}C$
 $\frac{|AZ|}{|ZP|} = (\frac{1}{c} + \frac{1}{d}) : (\frac{1}{a} + \frac{1}{b})$
 $\frac{|AZ|}{|ZQ|} = (\frac{1}{a} + \frac{1}{d}) : (\frac{1}{b} + \frac{1}{c}) = \frac{(a+d)c}{(b+c)d}$
 $Z = \frac{m_1A_1 + \dots + m_nA_n}{m_1 + \dots + m_n}$
 $\vec{AC}_1 = \frac{1}{3}\vec{AB} \quad \vec{BC}_1 = \frac{1}{3}\vec{BC} \quad \vec{CC}_1 = \frac{1}{3}\vec{CA}$
 $A_1 + \dots + m_nA_n + m_{n+1}A_{n+1} + \dots + m_mA_m = S_{loc} = 3S_{ext} = \frac{5}{2}A_1 = \frac{1}{4}C_1$
 $\vec{CL} = \alpha \vec{CA} + (1-\alpha)\vec{CC}$
 $|DP| : |PC| = 1:2 \quad |AM| : |MC| = 3:1$
 $|AP| = \frac{5}{2}|A_1P| \quad \frac{5}{3}B_1 = 10 + \frac{2}{3}P \quad \frac{5}{4}C_1 = 1C + \frac{1}{4}P \quad Z = \frac{(10 + 5A)}{14}$
 $\frac{(3C + 0.6A)}{3.6} = \frac{6M + 3.6P}{3.6} \Rightarrow Z \in [MP]$
 $\frac{1}{c}C \quad \vec{CL} = \alpha \vec{CA}$
 $\rho = \frac{1A + 2F + 1C + 10F}{14} = \frac{(1A + 1C) + (2F + 10F)}{14}$