

$\vec{AM} = \lambda \vec{MB} \quad \vec{DN} = \mu \vec{NC}$

$\frac{65}{12} Q = \left(1A + \frac{3}{2}P\right) + \left(10 + \frac{2}{3}P\right) + \left(1C + \frac{1}{4}P\right) = \frac{5}{2}A_1 + \frac{5}{2}A_1 + \frac{5}{4}C_1$

$\left(\frac{1}{c} + \frac{1}{d}\right)P \quad |AP| = |AQ| = a \quad |DP| = |DT| = m \quad \vec{CL} = \alpha \vec{CA}$

$|PQ| = \frac{36}{65}|PM| \quad |AM| : |MC| = 3 : 1$

$|AP| = |AQ| + |QP| = 10/|QP|$

$1A + \nu P + \gamma Q = (1 + \nu + \gamma)M$

$P = \frac{1A + 2F + 1C + 10F}{14} = \frac{(1A + 1C) + (2F + 10F)}{14}$

$2Z = 36|ZP| \quad 4|FZ| = 5|ZA|$

$\vec{CZ} = \alpha \vec{CA} \quad \rho = \frac{(2A + 3B) + 8C}{13} = \frac{5D + 8C}{13} \Rightarrow P \in [CD]$

$(m_1 + m_2 + \dots + m_n)Z = m_1A_1 + m_2A_2 + \dots + m_nA_n$

$Z \in [AM] \Rightarrow T \in [AN]$

$P = \frac{2A + 3B + 8C}{13}$

$Z = \frac{PA + 9D + 1C}{P + 9 + 1} = \frac{PA + 9D + 1C}{P + 10} = 5|PQ|$

$|AA_1| = 2 \quad (1 + x)D = 1A + \dots$

$|AZ| = \left(\frac{1}{c} + \frac{1}{d}\right) \cdot \left(\frac{1}{a} + \frac{1}{b}\right)$

$|AZ| = \left(\frac{1}{a} + \frac{1}{d}\right) \cdot \left(\frac{1}{b} + \frac{1}{c}\right) = \frac{(a+d)bc}{(b+c)d}$

$Z = \frac{m_1A_1 + \dots + m_nA_n}{m_1 + \dots + m_n}$

$q = \frac{b}{1-b}$

$\vec{AC}_1 = \frac{1}{3}\vec{AB} \quad \vec{BC}_1 = \frac{1}{3}\vec{BC} \quad \vec{CC}_1 = \frac{1}{3}\vec{CA}$

$\vec{CL} = \alpha \vec{CA} + (1-\alpha)\vec{CC}$

$|DP| : |PC| = 1 : 2 \quad |AM| : |MC| = 3 : 1$

$|AP| = \frac{5}{2}|A_1P|$

$\frac{5}{3}B_1 = 1B + \frac{2}{3}P$

$\frac{5}{4}C_1 = 1C + \frac{1}{4}P$

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