$$F_{i}^{(A1)} = \sum_{A} |aX_{i} - bX_{b}| = \sum_{A} b \left| \frac{a}{b} X_{i} - X_{b} \right|$$

$$F_{i}^{(A2)} = \sum_{A} |aY_{i} - bY_{b}| = \sum_{A} b \left| \frac{a}{b} Y_{i} - Y_{b} \right|$$

$$F_{i}^{(R1)} = \sum_{A} \left| \frac{aY_{i} - bY_{b}}{bY_{b}} \right| = \sum_{A} \left| \frac{\frac{a}{b} Y_{i} - Y_{b}}{Y_{b}} \right|$$

$$F_{i}^{(R2)} = \sum_{A} \left| \log_{10} \frac{aY_{i}}{bY_{b}} \right| = |\sum_{A} \left| \log_{10} \frac{a}{b} Y_{i} - \log_{10} Y_{b} \right|,$$