$$E(\theta_3) = E\left(\sum_{i=1}^n w_i X_i\right) = \frac{1}{\sum_{i=1}^n w_i} E\left(\sum_{i=1}^n w_i X_i\right) = \mu$$

因此,估計量 X 及 $\sum_{i=1}^n w_i X_i / \sum_{i=1}^n w_i$ 皆為母體參數 μ 之不偏估計量。
$$E(X_1 - X_1) = E(X_1 - 2X_1 X_1 + X_2)$$

$$E(0) = E(X_1 - X_1) - h(X_1 - X_2)$$

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