Abstract. Let \( f \) be an increasing and convex (concave) function on \([0, 1]\) and \( \phi \) a positive increasing concave function on \([0, \infty)\) such that \( \phi(0) = 0 \) and the sequence \( \{ \phi(i+1)(\frac{\phi(i)}{\phi(i+1)} - 1) \}_{i \in \mathbb{N}} \) decreases. Then the sequence \( \left\{ \frac{1}{\phi(m)} \sum_{i=0}^{n-1} f\left( \frac{\phi(i)}{\phi(m)} \right) \right\}_{n \in \mathbb{N}} \) is increasing.

Key words and phrases: Inequality, concave function, monotonicity.

REFERENCES


