JENSEN–STEFFENSEN'S AND RELATED
INEQUALITIES FOR SUPERQUADRATIC FUNCTIONS

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Abstract. Refinements of Jensen-Steffensen's inequality, Slater-Pečarić's inequality and majorization theorems for superquadratic functions are presented.

REFERENCES

[1] S. ABRAMOVICH, G. JAMESON AND G. SINNAMON, *Refining Jensen's Inequality*, Bull. Math. Soc. Math. Roum, **47**, (2004), 3–14.
[2] S. ABRAMOVICH, G. JAMESON AND G. SINNAMON, *Inequalities for Averages of Convex and Superquadratic Functions*, JIPAM **5**, (4), Article 91 (2004).
[3] S. ABRAMOVICH, M. KLARIČIĆ BAKULA, M. MATIĆ, AND J. PEČARIĆ, *A Variant of Jensen-Steffensen's Inequality and Quasi-Arithmetic Means*, J. Math. Anal. Appl., **307**, (2005), 370–385.
[4] E. F. BECKENBACH, *Superadditivity Inequalities*, Pac. J. Math., **14**, (1964), 421–438.
[5] L. MALIGRANDA, J. E. PEČARIĆ AND L. E. PERSSON, *Weighted Favard and Berwald Inequalities*, J. Math. Anal. Appl., **19**,0 (1995), 248–262.
[6] J. E. PEČARIĆ, *A Companion Inequality to Jensen-Steffensen's Inequality*, J. Approx. Theory, **44**, (1985), 289–291.
[7] J. E. PEČARIĆ, S. ABRAMOVICH, *On New Majorization Theorems*, Rocky Mountain J. of Math., **27**, (1997), 903–911.
[8] G. SINNAMON, *Refining the Hölder and Minkowski inequalities*, J. Inequal. Appl., **6**, (2001), 633–640.
[9] M. L. SLATER, *A Companion Inequality to Jensen's Inequality*, J. Approx. Theory, **32**, (1981), 160–166.

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