1014-34-930 Mariette Maroun\* (Mariette\_Maroun@baylor.edu), Department of Mathematics, Baylor University, Waco, TX 76798-7328. Positive Solutions to an N<sup>th</sup>-Order Right Focal Boundary Value Problem.

The existence of a positive solution is obtained for the  $n^{th}$ -order right focal boundary value problem  $y^{(n)} = f(x, y)$ ,  $0 < x \le 1, y(0) = y'(0) = y''(0) = \cdots = y^{(n-3)}(0) = y^{(n-2)}(p) = y^{(n-1)}(1) = 0$ , where  $\frac{1}{2} is fixed and where <math>f(x, y)$  is singular at x = 0, y = 0, and possibly at  $y = \infty$ . The method applies a fixed-point theorem for mappings that are decreasing with respect to a cone. (Received September 26, 2005)