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Finding Roots of a Non-Linear Function using The Brown-Johnson Method.

The Brown-Johnson Method was developed by combining aspects of the following methods: Bisection Method, Newton's Method, and Secant Method. Secant and tangent lines are used to restrict the range that the root could lie within, and then the Bisection Method is used approximate the root. The Brown-Johnson method converges at almost the same rate as Newton's method, and also guarantees convergence when given an appropriate initial interval. (Received September 10, 2014)