

<u>שיטות נומריות למהנדסים (019003)</u>

Preparation Homework #6: Optimization

- 1. What are the advantages of using the Golden section search method in 1-D optimization comparing to the Newton method?
- 2. Perform one iteration using the steepest descent method to find a minimum of the function $f = x^2 + x\cos(y)$, starting at the point [1 1]. Why is each consecutive iteration perpendicular to the last one?

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