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The diagram illustrates the golden section search method for finding the minimum of a function $f(x)$. It is divided into three parts: (a) Initial search interval, (b) First iteration, and (c) Second iteration.

In part (a), the initial search interval is $[a, b]$. The function $f(x)$ is shown as a curve. The minimum is located at x^* . The interval is divided into segments, and the minimum is found by comparing function values at specific points.

In part (b), the first iteration is shown. The interval is divided into segments, and the minimum is found by comparing function values at specific points. The interval is updated to $[a, c]$.

In part (c), the second iteration is shown. The interval is divided into segments, and the minimum is found by comparing function values at specific points. The interval is updated to $[a, d]$.

[illegible]