```
f =
  function_handle with value:
    @(x)x.^2-8*x+1
diff =
    Inline function:
    diff(x) = x.*2.0-8.0

Iterations: 1.0,  Root: 0.0000,  f(x): -6.0000,  Diff(f(x)): -6.0000
Iterations: 2.0,  Root: 0.1250,  f(x): 1.0000,  Diff(f(x)): -8.0000
Iterations: 3.0,  Root: 0.1270,  f(x): 0.0156,  Diff(f(x)): -7.7500
Iterations: 4.0,  Root: 0.1270,  f(x): 0.0000,  Diff(f(x)): -7.7460
>>
```