

# 牛熊市试验报告 I

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## 1 A section

以下为正文部分，可以任意替换或删除  
This is some text.

### 1.1 subsection 演示插入MATLAB代码

各级标题效果演示

#### 1.1.1 A subsubsection

演示代码插入效果：

sd\_method.m

```
1 point = [9; 1];
2 H = [1, 0; 0, 9];
3 figure
4 ezcontour('x^2/2+9*y^2/2',[-9, 9, -6, 6])
5
6 % steptest decent method
7 sdm_points = [9; 1];
8 count = 0;
9 while(norm(point) > 1e-5)
10 count = count + 1;
11 g = [point(1); 9*point(2)];
12 point = point - g'*g/(g'*H*g).*g;
13 sdm_points = [sdm_points, point];
14 end
15 hold on
16 plot(sdm_points(1, :), sdm_points(2, :), '-','LineWidth',3);
17 count
```

图片插入效果图：

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