Homework IV

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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 A 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

```
point = [9; 1];
H = [1, 0; 0, 9];
figure
ezcontour('x^2/2+9*y^2/2', [-9, 9, -6, 6])
% steptest decent method
sdm_points = [9; 1];
count = 0;
while (norm (point) > 1e-5)
    count = count + 1;
    g = [point(1); 9*point(2)];
    point = point - g' *g/(g' *H*g).*g;
    sdm_points = [sdm_points, point];
end
hold on
plot(sdm_points(1, :), sdm_points(2, :),' -',' LineWidth', 3);
count
图片插入效果图:
```

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