CS 615 coso - sino x' sino coso y' $x'=\cos\theta x - \sin\theta y$ $y'=|\cos\theta x|$ $|\sin\theta y|$ 9 = - Sinox + cosoy $\frac{2}{3} = \frac{2}{3} = \frac{2}$ $\frac{3^{2}}{3x^{2}} = (\cos \theta_{3}^{2}) - \sin \theta_{3}^{2} \sin \theta_{3}^{2} - \sin \theta_{3}^{2} \cos \theta_{3}^{2} - \sin \theta_{3}^{2} \cos \theta_{3}^{2} + \cos \theta_{3}^{2} \cos \theta_{3}^{2} \cos \theta_{3}^{2} + \cos \theta_{3}^{2} \cos \theta_{$ 72 = fxx + fyy = 00520 fxx> -20050 Sino fxy + Sin20 fyry + Sin20 fxx + 2 coso sino fxy + coso fxy $\nabla^2 f = f_{xx} + f_{yy} = f_{xx} + f_{yy}$

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Exercise 1: On Paper

Exercise 2

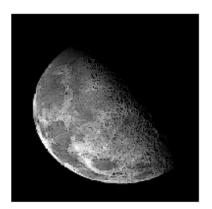
```
moon = imread('./Moon.jpg');
lap = ones(3, 3);
lap(2, 2) = -8;

g = moon - imfilter(moon, lap);

figure;
subplot(1, 2, 1)
imshow(moon, [])

subplot(1, 2, 2)
imshow(g, [])
```

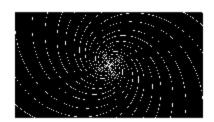




Exercise 3

```
spiral = imread('./spiral.jpg');
spiralGray = rgb2gray(spiral);
spiralBW = imbinarize(spiralGray, graythresh(spiralGray));
figure;
subplot(1, 2, 1)
imshow(spiralBW, [])
subplot(1, 2, 2)
imshow(spiralBW - imerode(spiralBW, strel('disk', 2)), [])
```





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