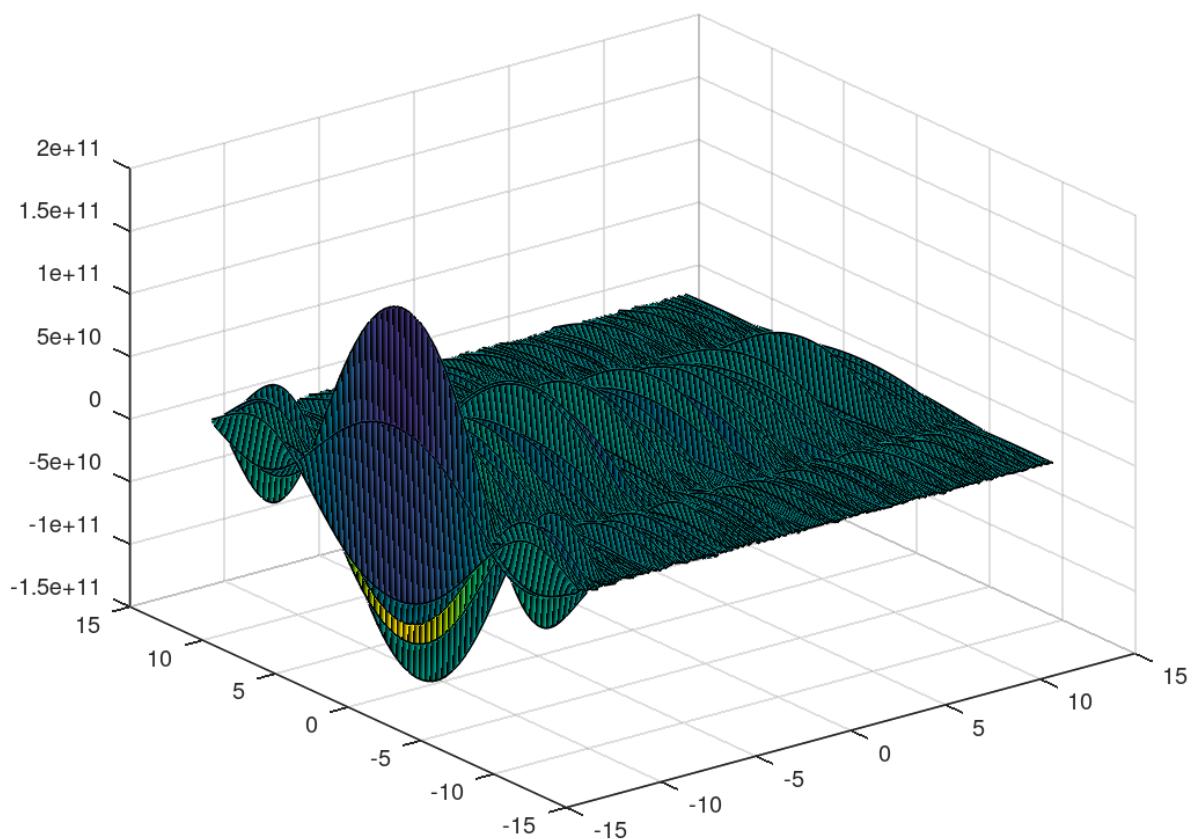
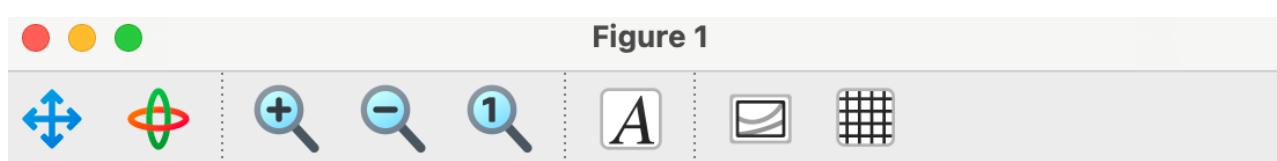


Assignment 11 Question 1

```
x = -4*pi:0.1:4*pi;  
y = -4*pi:0.1:4*pi;  
[X, Y] = meshgrid(x, y);
```

```
R = sqrt(X.^2+Y.^2);  
z = (sin(R))/ R;  
surf(X, Y, z)
```

output



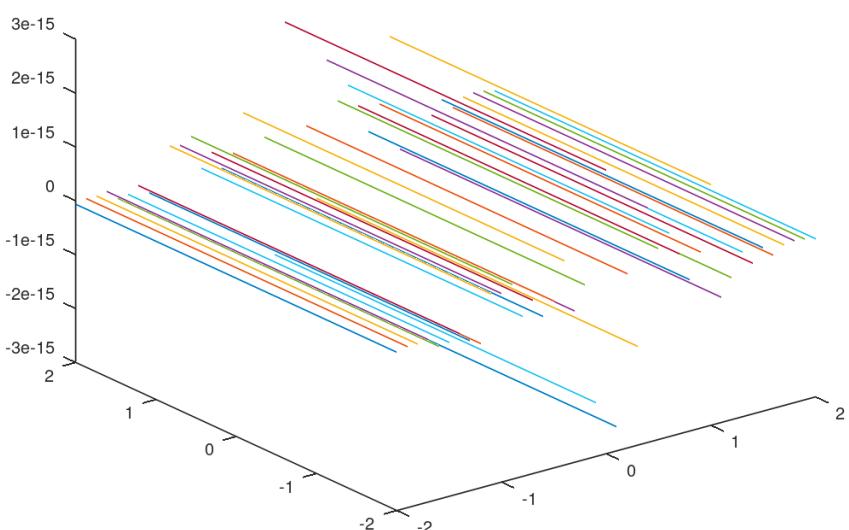
Assignment 11 Question 2

```
x = -2:0.1:2  
y = -2:0.1:2  
[X, Y] = meshgrid(x, y);  
z = 2*X*exp(-(X.^2+Y.^2));
```

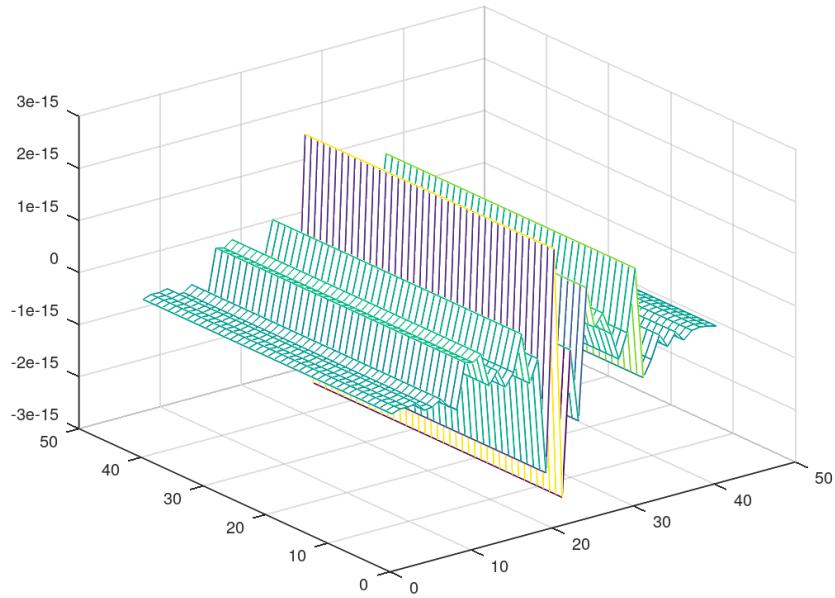
```
plot3(X, Y, z)  
mesh(z)  
contour(X, Y ,z)  
surf(X, Y, z)  
shading interp  
waterfall(X, Y, z)  
pcolor(X, Y, z)  
shading interp  
meshc(z)  
surf(z)
```

output

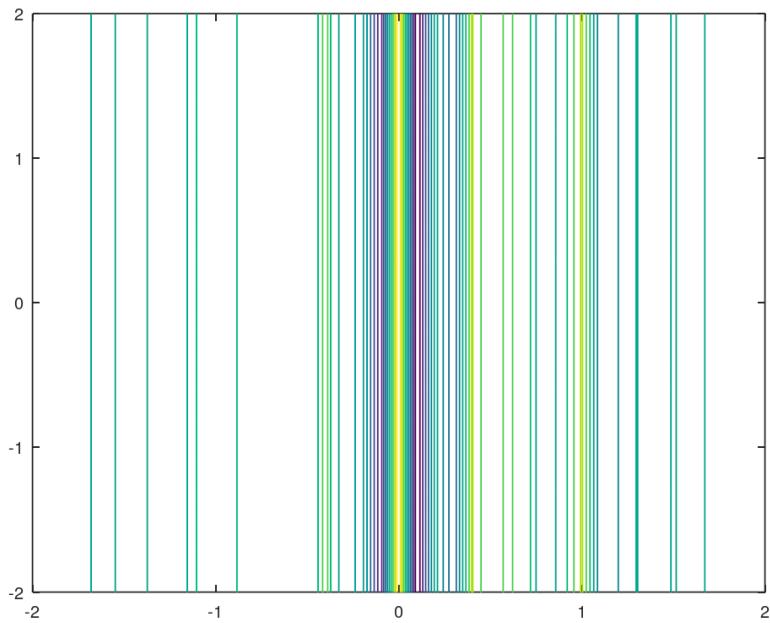
a)



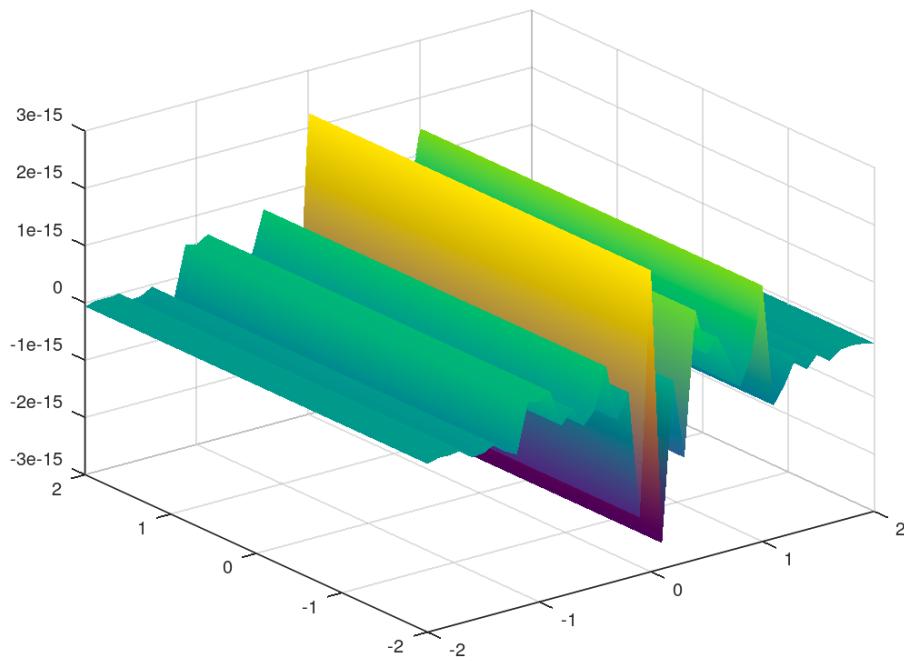
b)



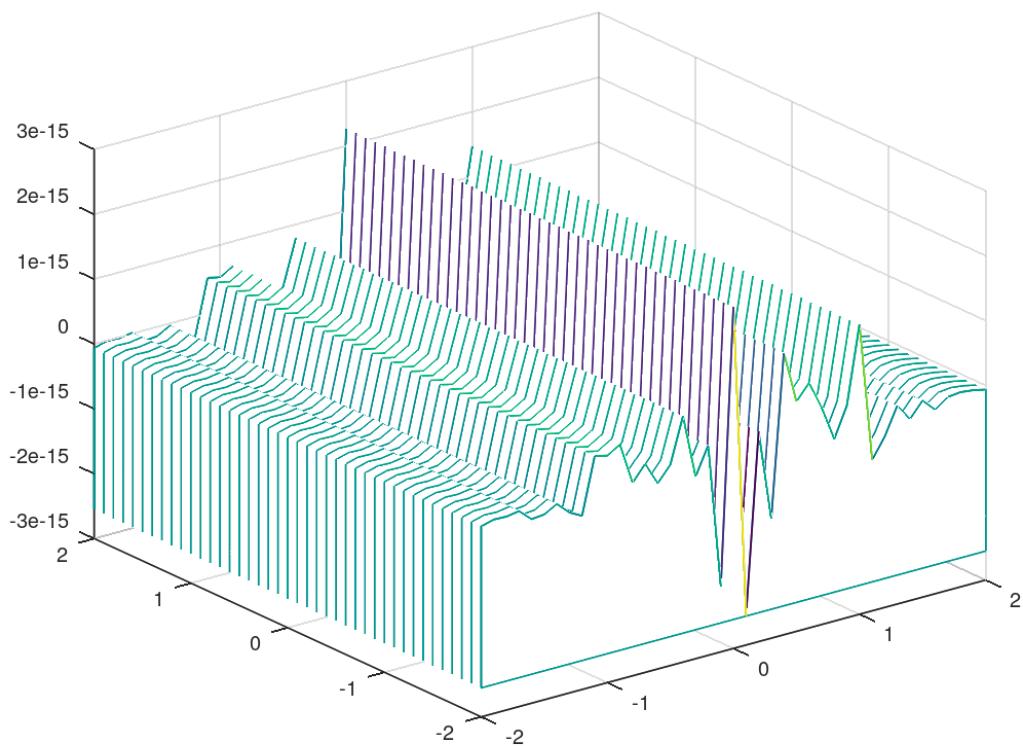
c)



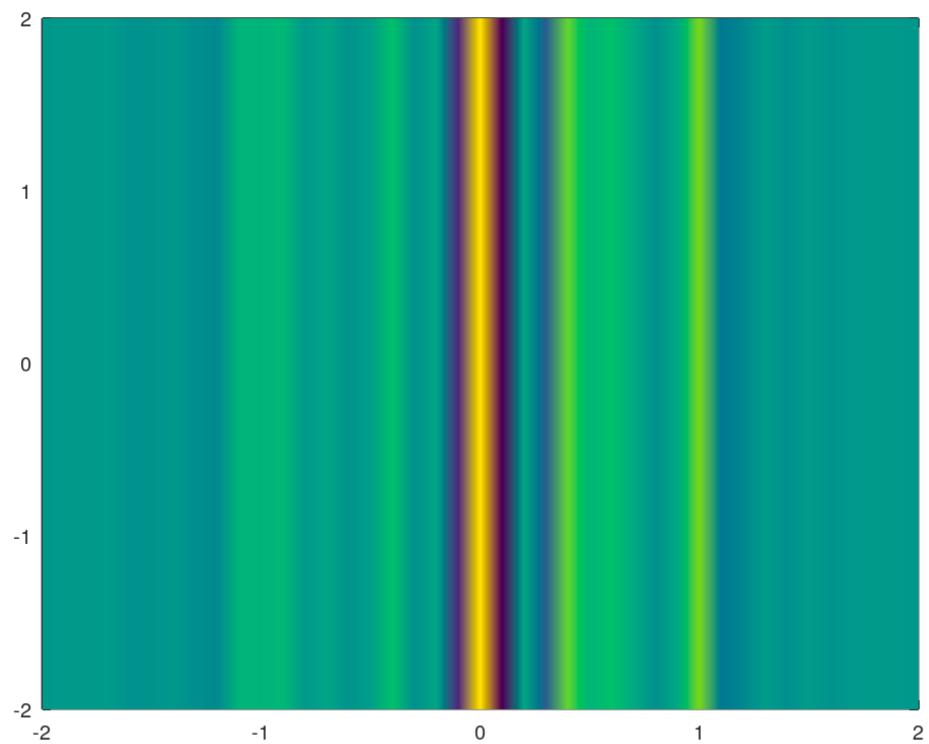
d)



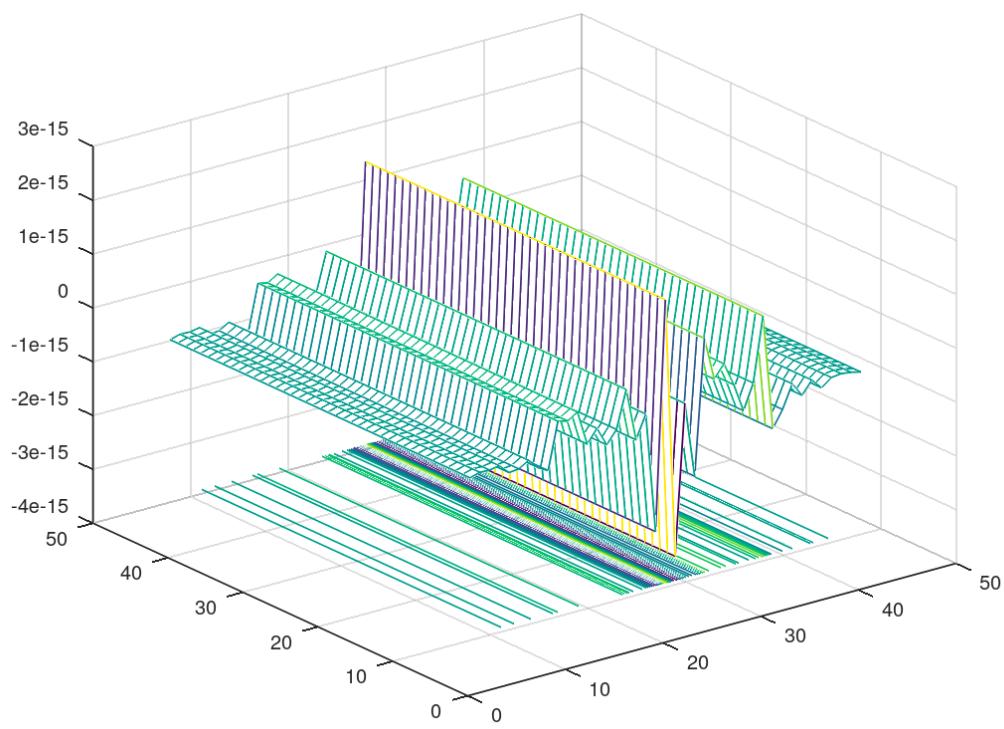
e)



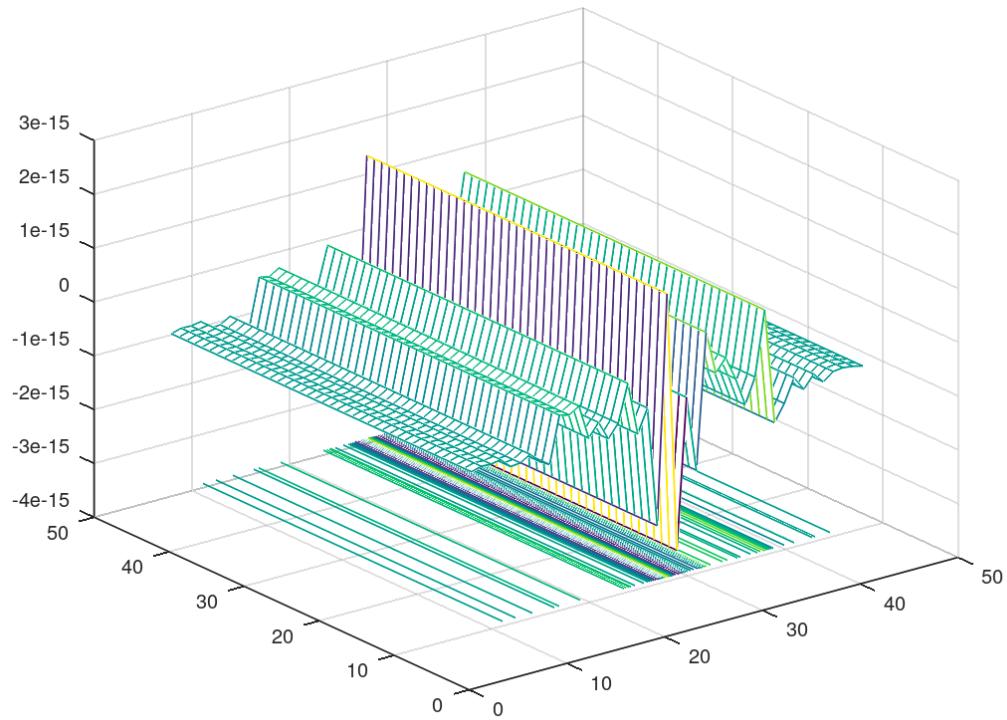
f)



g)



h)



Assignment 11 Question 3

```
x = -2*pi:0.1:2*pi;  
y = 0:0.1:4*pi;  
  
[X, Y] = meshgrid(x, y);  
  
z = sin(X) + cos(Y);
```

```
surf(X, Y, z)
```

```
mesh(X, Y, z)
```

```
contour(X, Y, z)
```

```
[c h] = contour(X, Y, z);
```

```
clabel(c, h)
```

output

