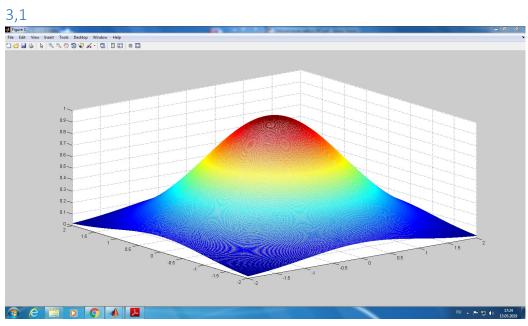
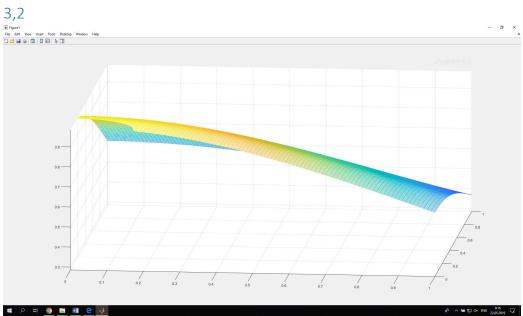
```
-%--%-- 15.05.2019 16:30 --%
  [X,Y] = meshgrid(0:.02:1);
  Z = X^2 + Y^2;
  mesh(X,Y,Z)
   [X,Y] = meshgrid(-2:.01:2);
   Z = \exp(-((X.^2)./2+(Y.^2)./2));
  mesh(X,Y,Z)
  --N=1;
  [X,Y] = meshgrid(-2:0.01:2);
  Z = N/2.*sin(2*pi.*X).*cos(1.5*pi.*X).*(1-X.^2).*Y.*X.*(1-Y);
  mesh( X, Y, Z)
  surfc(X,Y,Z)
  [X,Y] = meshgrid(-2:2);
  surfc(X,Y,Z)
  [X,Y] = meshgrid(-2:0.01:2);
  shading flat
  title('Flat Shading')
  surfc(X,Y,Z)
  shading flat;
  title('Flat Shading');
  surfc(X,Y,Z);
  shading interp
   surf(X,Y,Z);
   shading flat;
   mesh( X, Y, Z);
  shading flat;
   shading interp
   mesh( X, Y, Z);
   surf(X,Y,Z);
```

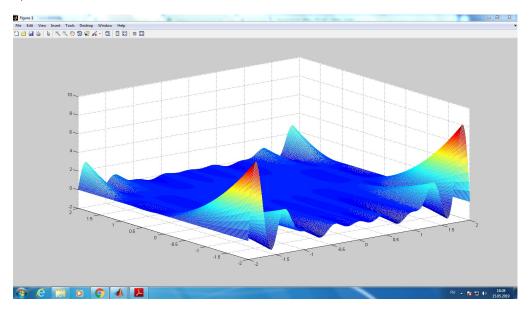
```
surfc(X,Y,Z);
 shading interp
surf(X, Y, Z);
-shading flat;
mesh( X, Y, Z);
shading flat;
-shading interp
mesh( X, Y, Z);
-surf(X, Y, Z);
meshc(X,Y,Z)
-colorbar
colorbar;
mesh(X,Y,Z)
colorbar;
contour3(X, Y, Z, 40)
contour (X, Y, Z, 20)
colorbar;
contourf(X,Y,Z,20)
C = contour(X, Y, Z);
clabel(C)
mesh( X, Y, Z)
-surf(X, Y, Z);colormap(jet); shading interp
clabel(C)
help colormap
```

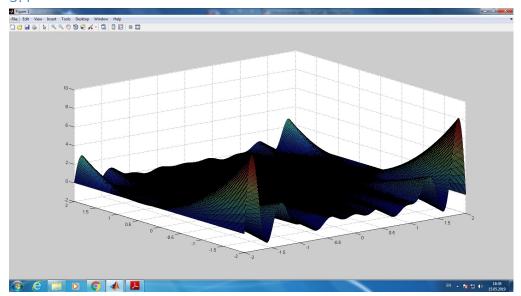
```
>> a=1;
b=1;
c=1;
u = (-2:0.1:2)';
v = [0:0.05*pi:2*pi];
Z = a*u*cos(v);
X = b*u*sin(v);
Y = c*u*ones(size(v));
figure('Color','w')
hS=mesh(X,Y,Z);
```



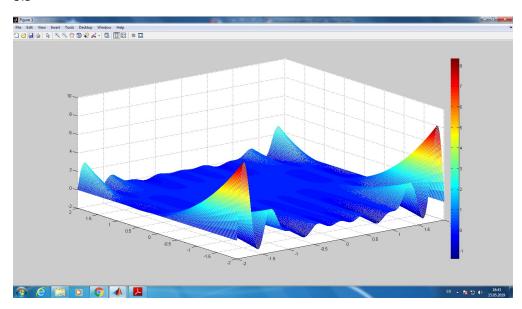


3,3

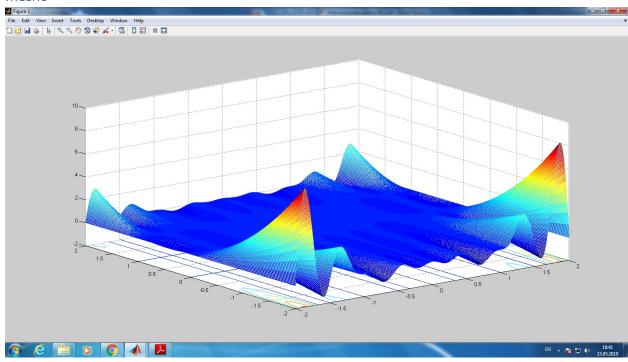




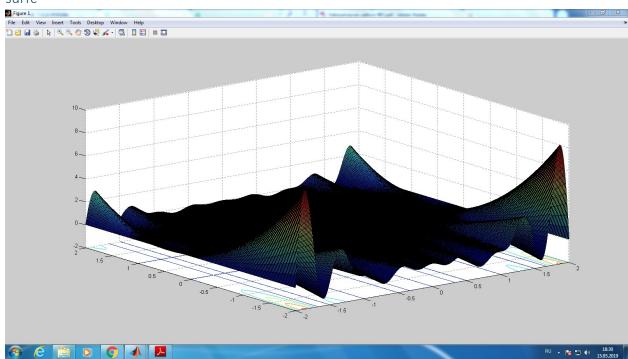
3.5

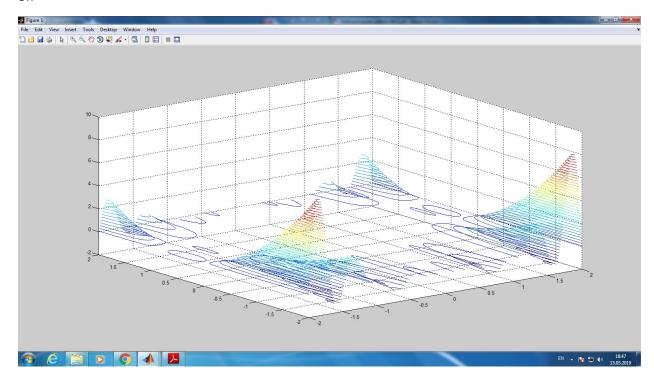


meshc



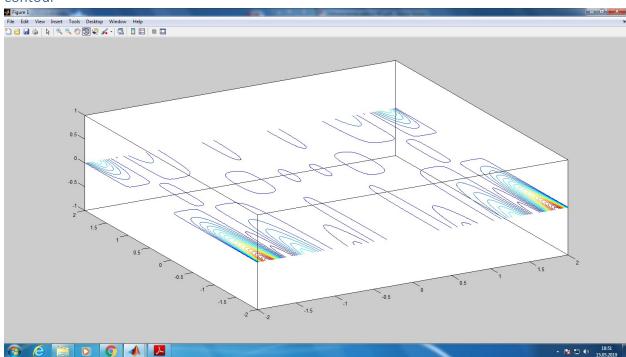
surfc



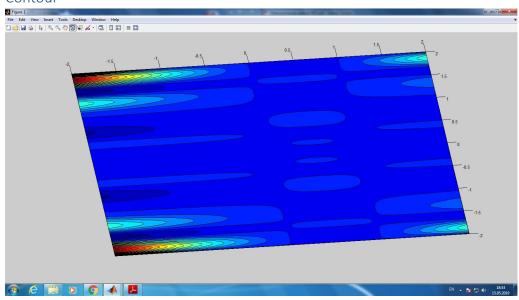


3.8

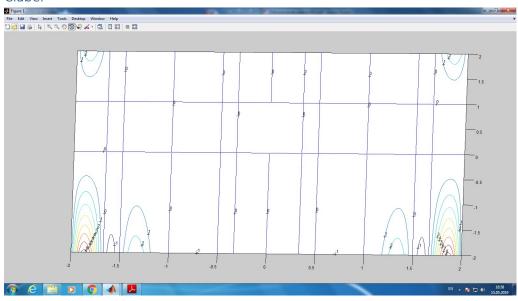
contour



Contour



Clabel



3.9

