Question 2c

In [15]:

```
from mpl_toolkits import mplot3d
%matplotlib inline
import numpy as np
import matplotlib.pyplot as plt

fig = plt.figure()
x1 = np.linspace(-5,5,100)
x2 = x1

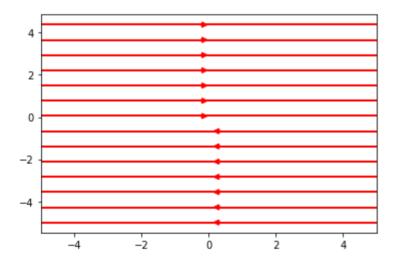
X, Y = np.meshgrid(x1,x2)

U = Y
V = 0*Y

plt.streamplot(X, Y, U, V, density = 0.5, color = 'red', linewidth = 2)
```

Out[15]:

<matplotlib.streamplot.StreamplotSet at 0x12b3127f0>



Question 2d

In [5]:

```
fig = plt.figure()

ax = plt.axes(projection='3d')
space = np.linspace(-15, 15, 2000)
x1 = space
x2 = space
x, y = np.meshgrid(x1,x2)
vdot = -4 * X**4 * Y**2
ax.plot_surface(X, Y, vdot)
```

Out[5]:

<mpl_toolkits.mplot3d.art3d.Poly3DCollection at 0x1299bb780>

