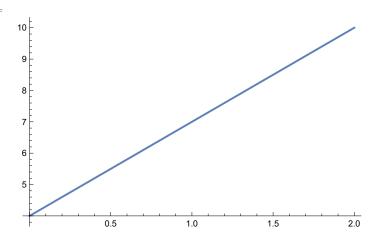
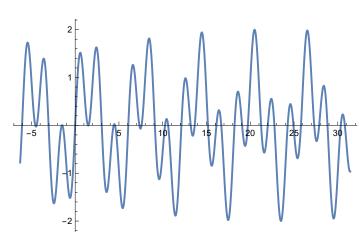
In[0]:= Plot[3x+4, {x, 0, 2}]

Out[0]=

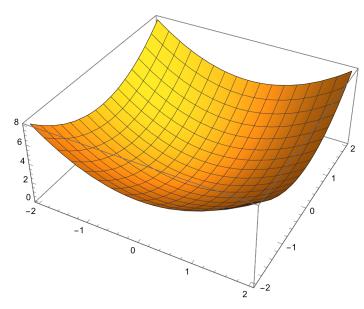


 $In[*]:= Plot[Sin[x] + Sin[\pi x], \{x, -2\pi, 10\pi\}]$

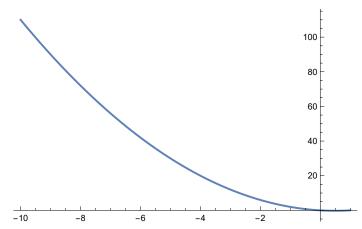


 $ln[*]:= Plot3D[x^2 + y^2, \{x, -2, 2\}, \{y, -2, 2\}]$

Out[0]=

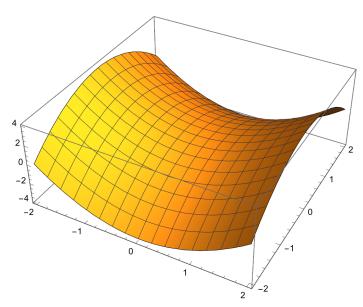


In[0]:= Plot[x² - x, {x, -10, 1}]



 $ln[*]:= Plot3D[x^2-y^2, \{x, -2, 2\}, \{y, -2, 2\}]$

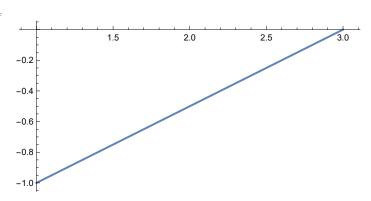
Out[•]=

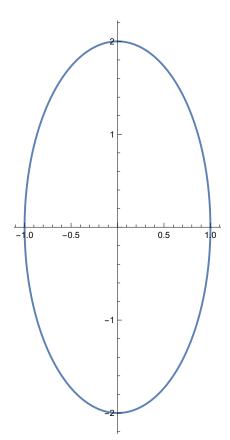


Zadanie 2

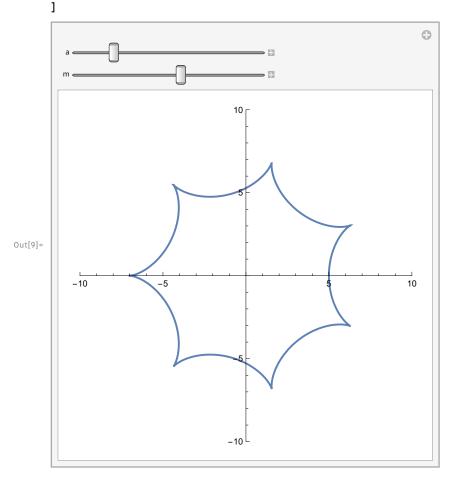
In[@]:= ParametricPlot[{2t+1, t-1}, {t, 0, 1}]

Out[@]=

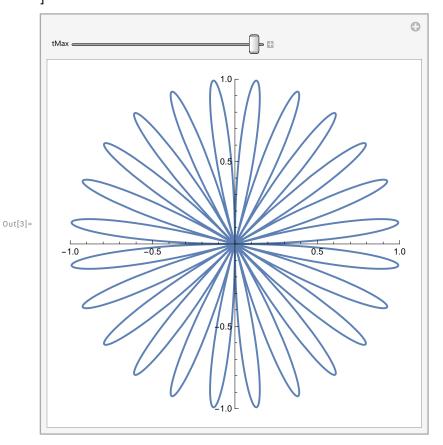




```
In[7]:= x[t_, a_, m_] := a (1-m) Cos[t] - a Cos[(1-m) t];
y[t_, a_, m_] := a (1 - m) Sin[t] - a Sin[(1 - m) t];
Manipulate[
 ParametricPlot[{x[t, a, m], y[t, a, m]},
   \{t, 0, 2\pi\}, PlotRange \rightarrow \{\{-10a, 10a\}, \{-10a, 10a\}\}\}],
  \{\{a, 1\}, 0.1, 5\}, \{\{m, 7\}, 3, 10\}
```

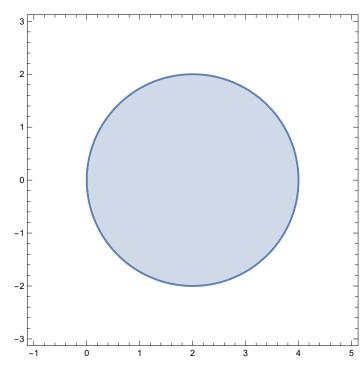


```
In[1]:= x[t_] := Sin[12t] × Cos[t];
 y[t_] := Sin[12t] \times Sin[t];
 Manipulate[
   \label{eq:parametricPlot} ParametricPlot[\{x[t], y[t]\}, \{t, 0, tMax\}, PlotRange \rightarrow \{\{-1, 1\}, \{-1, 1\}\}],
   \{tMax, 0.001, 2\pi\}
```



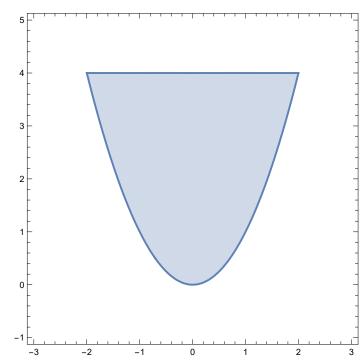
In[*]:= RegionPlot[$(x-2)^2 + y^2 \le 4$, {x, -1, 5}, {y, -3, 3}]

Out[0]=



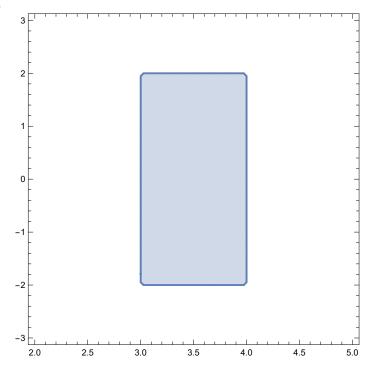
 $In[*]:= RegionPlot[(y > x^2) && (y < 4), \{x, -3, 3\}, \{y, -1, 5\}]$

Out[@]=

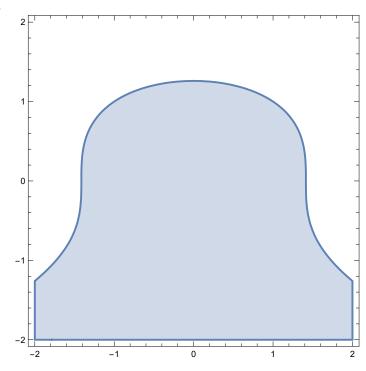


 $In[*]:= RegionPlot[(3 < x < 4) && (-2 < y < 2), {x, 2, 5}, {y, -3, 3}]$



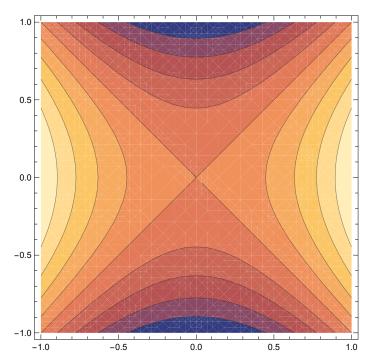


 $ln[*]:= RegionPlot[x^2 + y^3 < 2, \{x, -2, 2\}, \{y, -2, 2\}]$

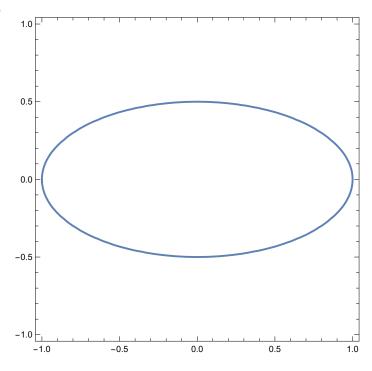


In[*]:= ContourPlot[$x^2 - y^2$, {x, -1, 1}, {y, -1, 1}]

Out[0]=

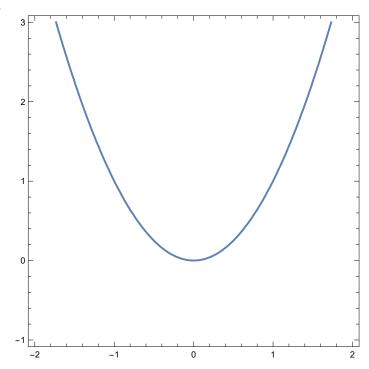


In[\circ]:= ContourPlot[$x^2 + (2y)^2 = 1, \{x, -1, 1\}, \{y, -1, 1\}$]

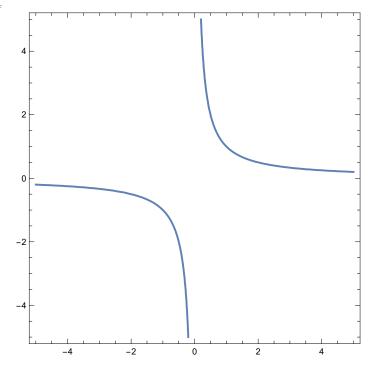


 $In[*]:= ContourPlot[x^2 == y, \{x, -2, 2\}, \{y, -1, 3\}]$

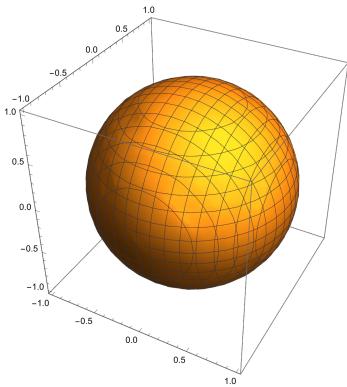
Out[0]=



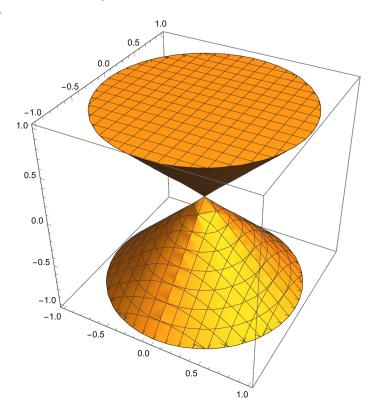
 $In[*]:= ContourPlot[xy=1, \{x, -5, 5\}, \{y, -5, 5\}]$



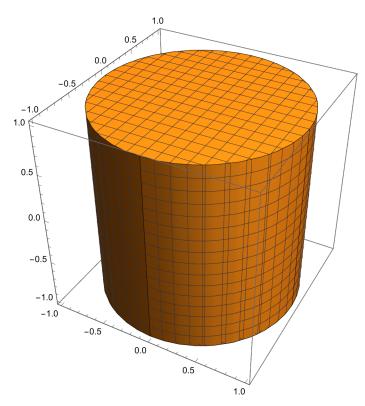
 $In[*]:= \text{ RegionPlot3D} \left[x^2 + y^2 + z^2 \le 1, \{x, -1, 1\}, \{y, -1, 1\}, \{z, -1, 1\} \right]$ Out[0]=



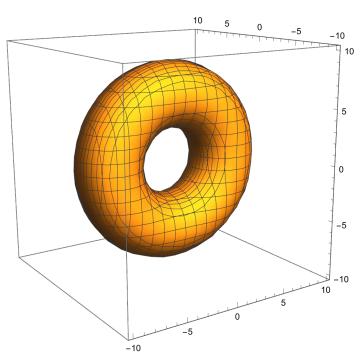
ln[*]:= RegionPlot3D[$x^2 + y^2 \le z^2$, {x, -1, 1}, {y, -1, 1}, {z, -1, 1}]



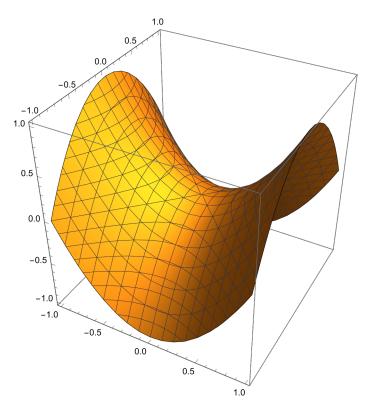
 $ln[*]:= RegionPlot3D[x^2 + y^2 \le 1, \{x, -1, 1\}, \{y, -1, 1\}, \{z, -1, 1\}]$



```
In[*]:= torus[{R_, r_}, {x_, y_, z_}] := (x^2 + y^2 + z^2 + R^2 - r^2)^2 = 4 R^2 (x^2 + z^2);
 ContourPlot3D[
  Evaluate[torus[{6, 3}, {x, y, z}]],
  \{x, -10, 10\}, \{y, -10, 10\}, \{z, -10, 10\}
```

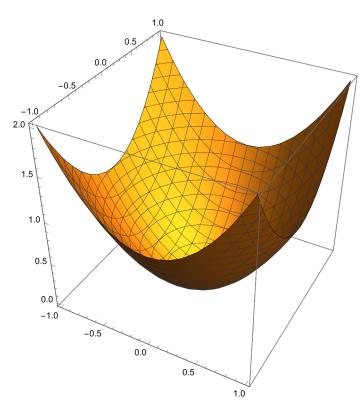


 $ln[*]:= ContourPlot3D[z == x^2 - y^2, \{x, -1, 1\}, \{y, -1, 1\}, \{z, -1, 1\}]$



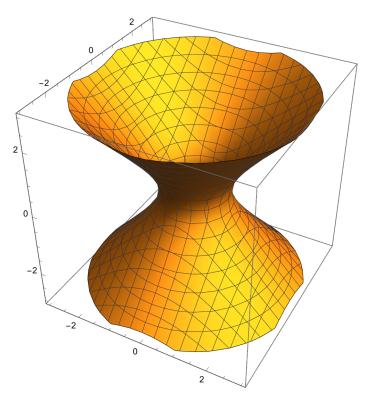
 $ln[a] := ContourPlot3D[z == x^2 + y^2, \{x, -1, 1\}, \{y, -1, 1\}, \{z, 0, 2\}]$

Out[0]=

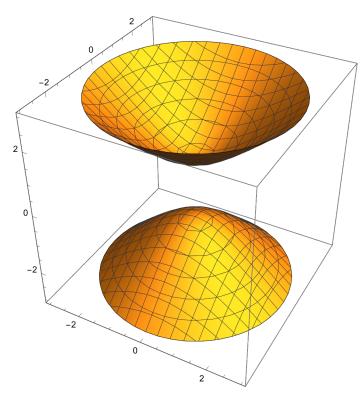


ln[*]:= ContourPlot3D[$x^2 + y^2 - z^2 = 1, \{x, -3, 3\}, \{y, -3, 3\}, \{z, -3, 3\}$]

Out[•]=



ln[*]:= ContourPlot3D[$x^2 + y^2 - z^2 == -1, \{x, -3, 3\}, \{y, -3, 3\}, \{z, -3, 3\}$]



In[\circ]:= ParametricPlot3D[{Sin[t], Cos[t], t / 10}, {t, 0, 10 π }]

Out[•]=

