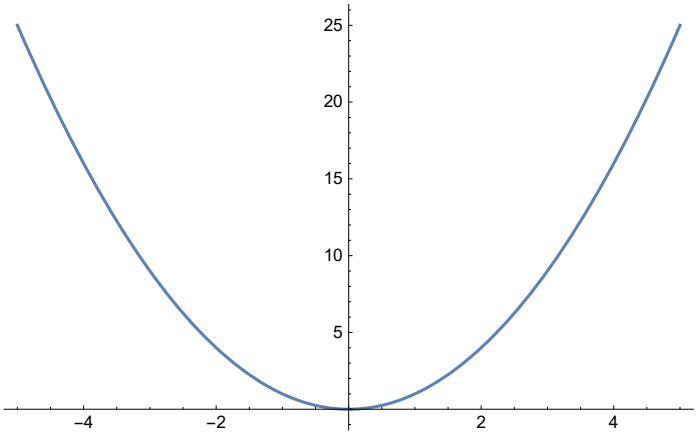
1. Parabola

In[1]:=
```
Plot[x^2, {x, -5, 5}]
```

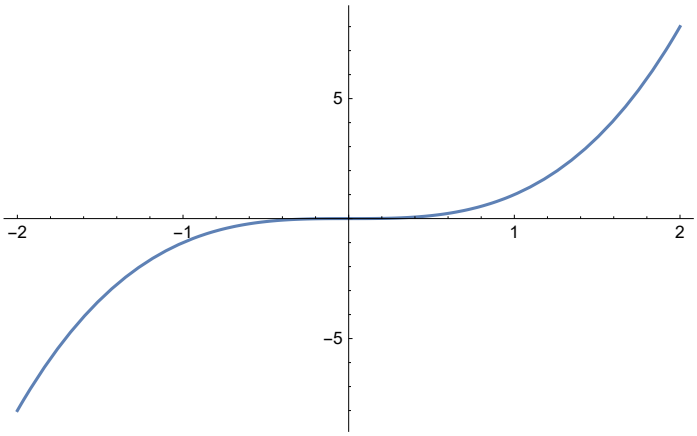
Out[1]=



2. Kubiskā parabola

In[2]:=
```
Plot[x^3, {x, -2, 2}]
```

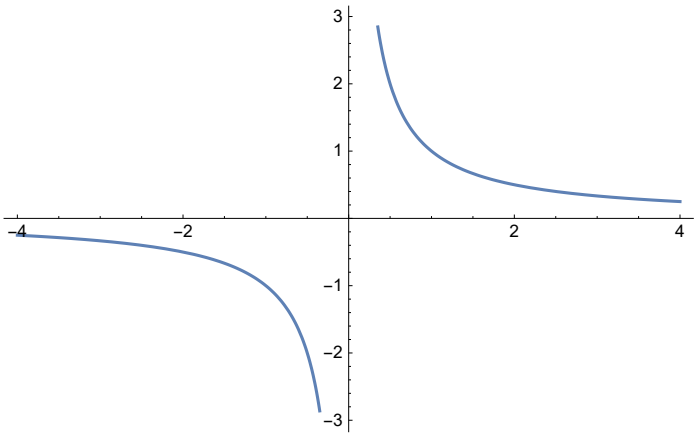
Out[2]=



3. Vienādsānu hiperbola

In[3]:=
```
Plot[1/x, {x, -4, 4}]
```

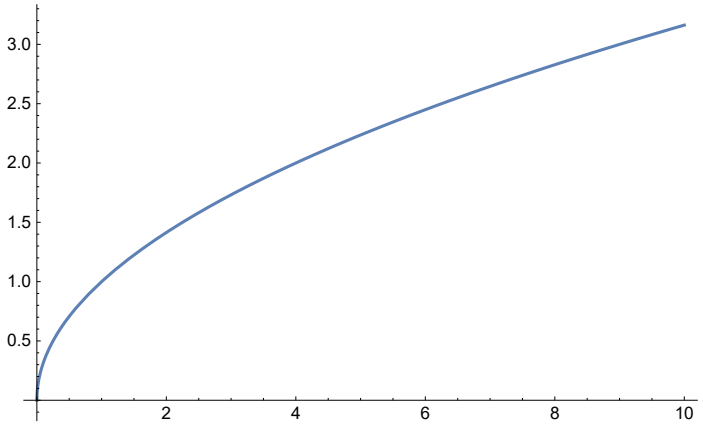
Out[3]=



4. Parabola (augšējais zars)

In[4]:=
```
Plot[Sqrt[x], {x, 0, 10}]
```

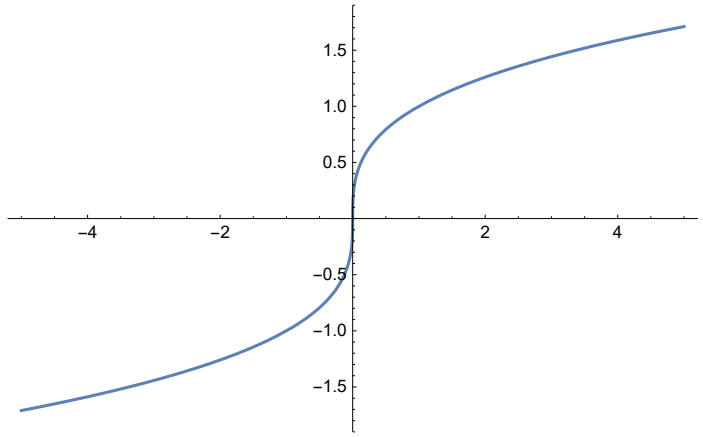
Out[4]=



5. Kubiskā parabola

In[5]:=
```
Plot[CubeRoot[x], {x, -5, 5}]
```

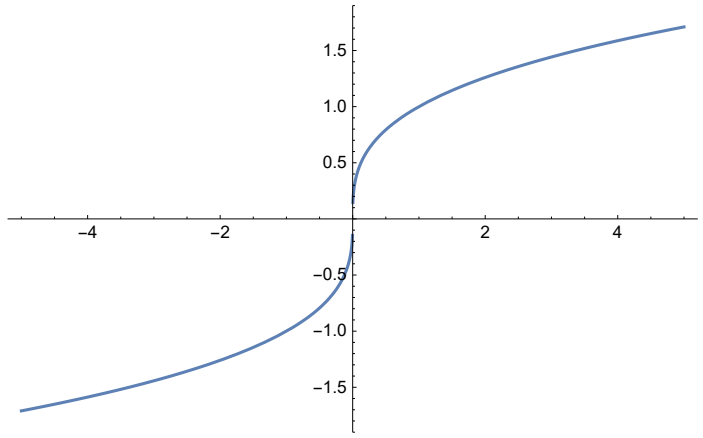
Out[5]=



vai

In[6]:=
```
Plot[Sign[x] * Abs[x] ^ (1 / 3), {x, -5, 5}]
```

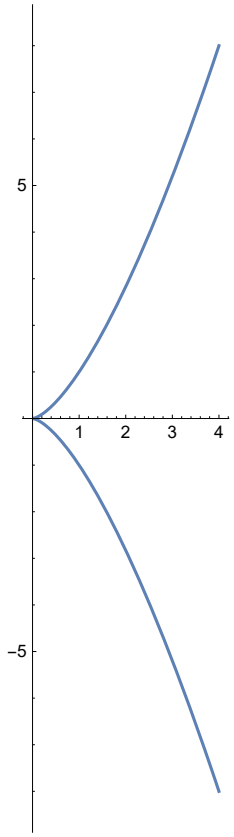
Out[6]=



6. Puskubiskā parabola

In[7]:=
```
ParametricPlot[{t^2, t^3}, {t, -2, 2}]
```

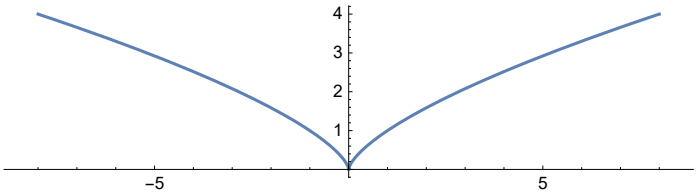
Out[7]=



7. Neila parabola

In[8]:=
```
ParametricPlot[{t^3, t^2}, {t, -2, 2}]
```

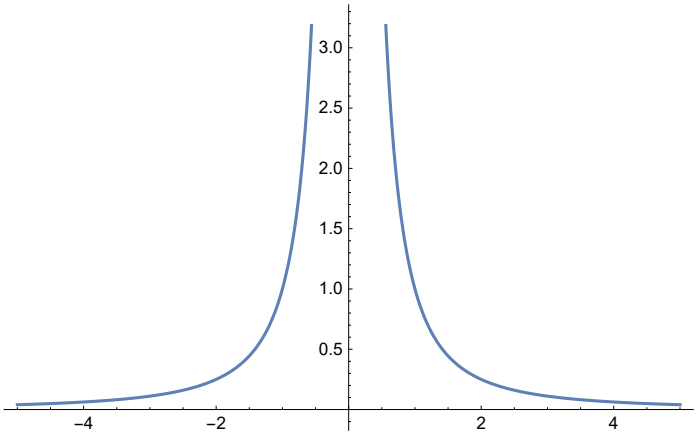
Out[8]=



8. Daiļveida funkcijas grafiks

In[9]:=
```
Plot[1 / x^2, {x, -5, 5}]
```

Out[9]=

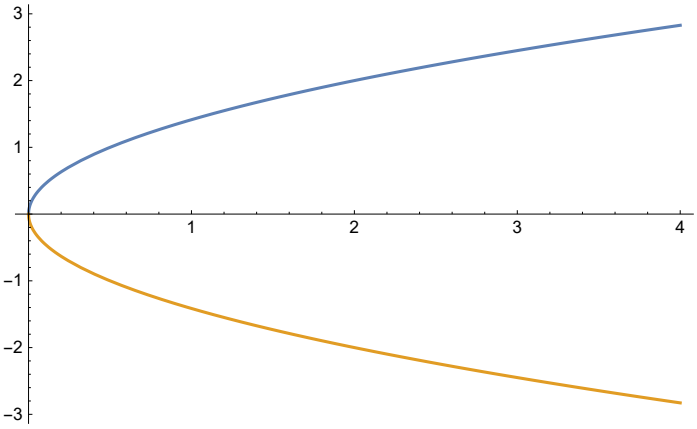


9. Parabola

In[10]:=
```
p = 1
Plot[{Sqrt[2 * p * x], -Sqrt[2 * p * x]}, {x, 0, 4}]
```

Out[10]= 1

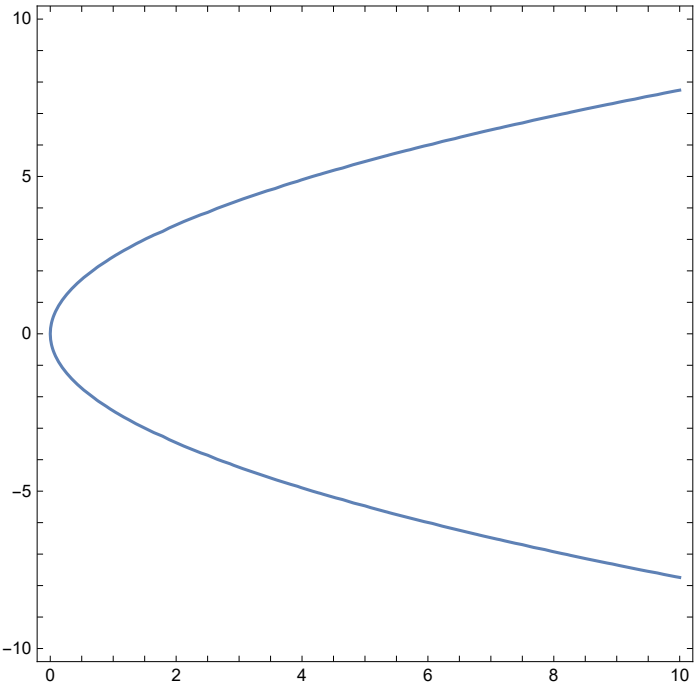
Out[11]=



In[12]:=
```
p = 3
ContourPlot[y^2 == 2 p * x, {x, 0, 10}, {y, -10, 10}]
```

Out[12]= 3

Out[13]=



10. Hiperbola

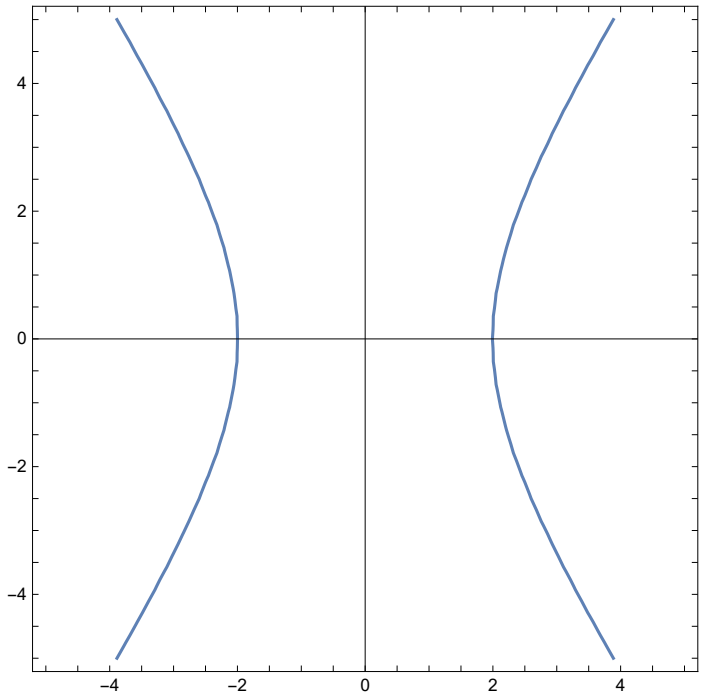
In[14]:=
```
a = 2
b = 3
```

Out[14]= 2

Out[15]= 3

In[16]:=
```
ContourPlot[x^2/a^2 - y^2/b^2 == 1, {x, -5, 5}, {y, -5, 5}, Axes -> True]
```

Out[16]=



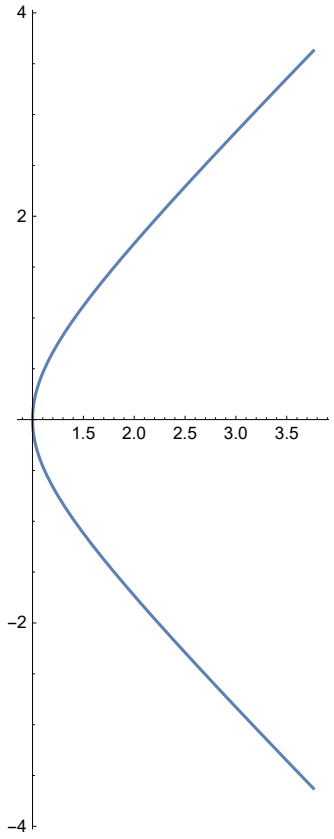
Labajam zaram

In[17]:=
```
a = 1
b = 1
ParametricPlot[{a * Cosh[t], b * Sinh[t]}, {t, -2, 2}]
```

Out[17]= 1

Out[18]= 1

Out[19]=



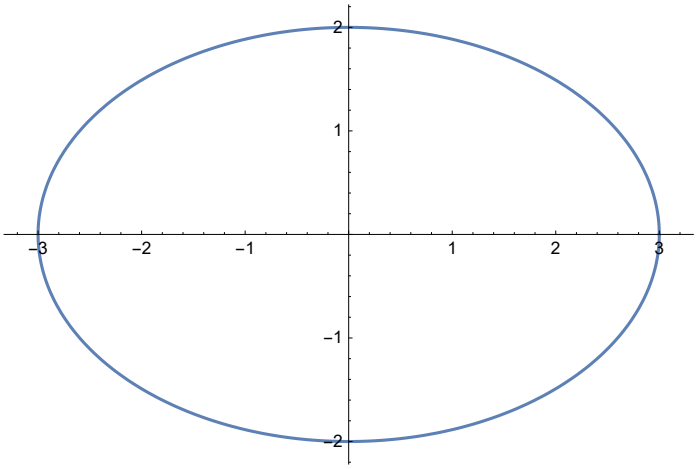
11. Elipse

In[20]:=
```
a = 3
b = 2
ParametricPlot[{a * Cos[t], b * Sin[t]}, {t, 0, 2 Pi}]
```

Out[20]= 3

Out[21]= 2

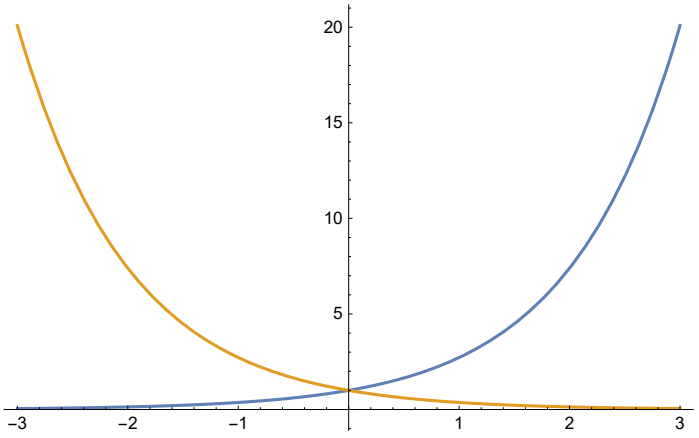
Out[22]=



12. Eksponentfunkciju grafiki

In[23]:=
```
Plot[{e^x, e^-x}, {x, -3, 3}]
```

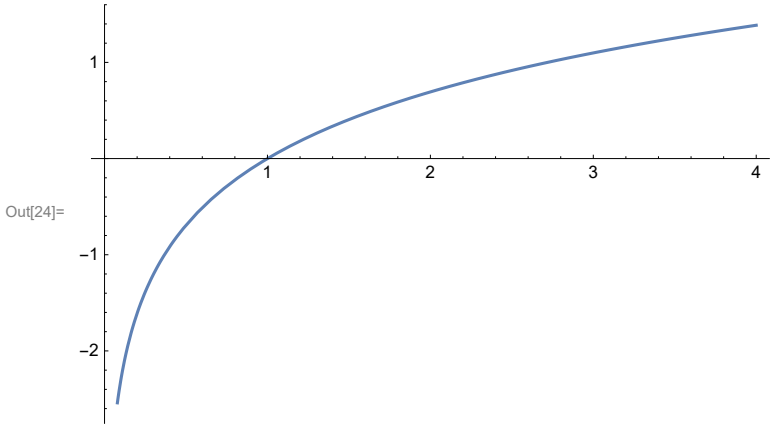
Out[23]=



13. Logaritmiskā līkne

In[24]:=
```
Plot[{Log[e, x]}, {x, 0, 4}]
```

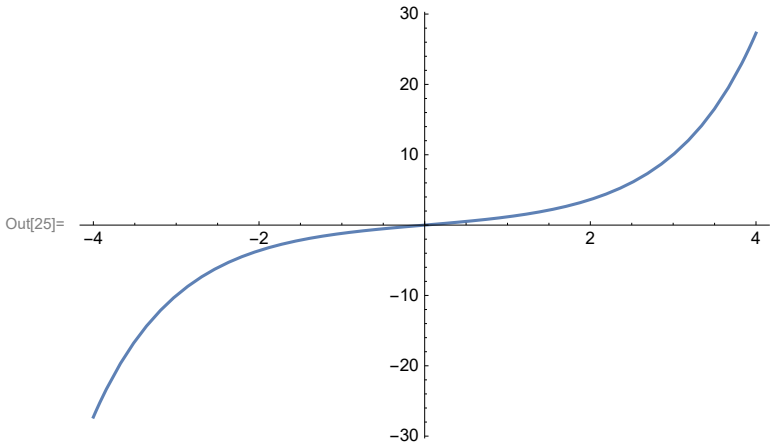
Out[24]=



14. Hiperbolisko funkciju grafiki

In[25]:=
```
Plot[{Sinh[x]}, {x, -4, 4}]
```

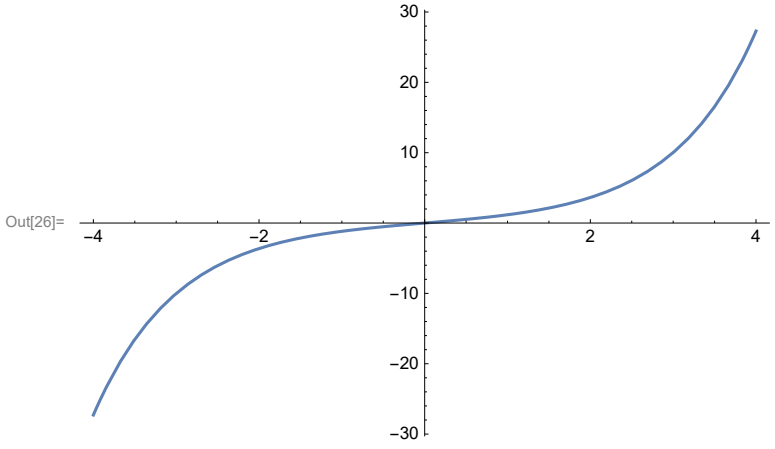
Out[25]=



vai

In[26]:=
```
Plot[{(e^x - e^-x)/2}, {x, -4, 4}]
```

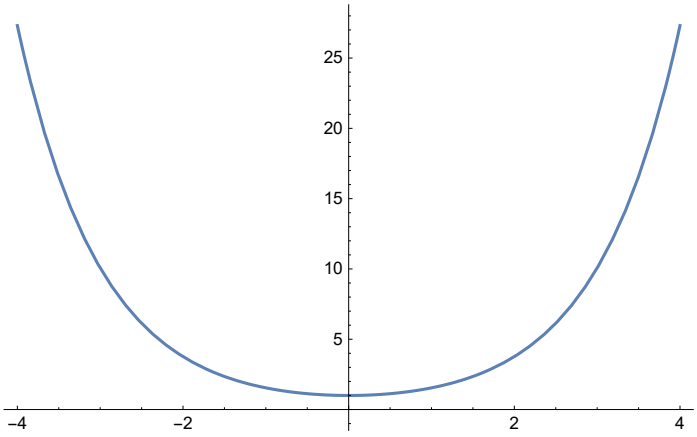
Out[26]=



15. Hiperbolisko funkciju grafiki

In[27]:=
```
Plot[{Cosh[x]}, {x, -4, 4}]
```

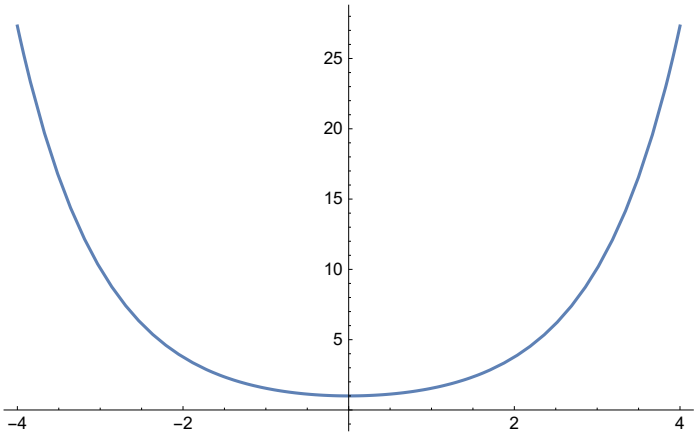
Out[27]=



vai

In[28]:=
```
Plot[{(e^x + e^-x)/2}, {x, -4, 4}]
```

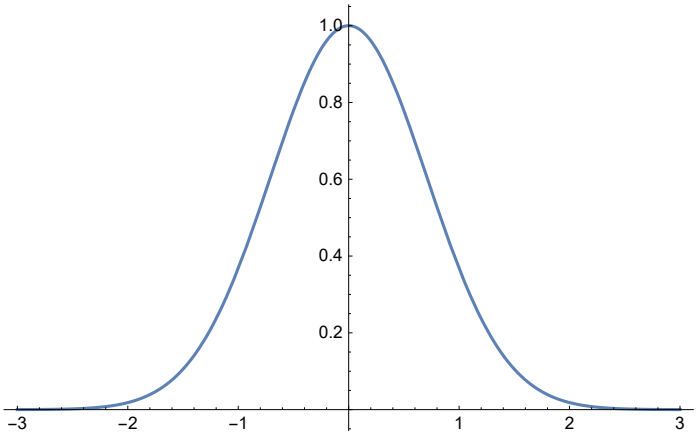
Out[28]=



16. Varbūtību līkne

In[29]:=
```
Plot[{e^-x^2}, {x, -3, 3}]
```

Out[29]=

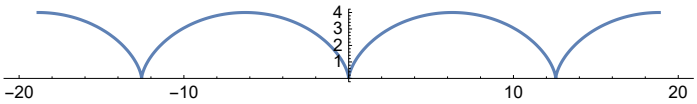


17. Cikloīda

In[30]:=
```
a = 2
ParametricPlot[{a * (t - Sin[t]), a * (1 - Cos[t])}, {t, -3 Pi, 3 Pi}]
```

Out[30]= 2

Out[31]=

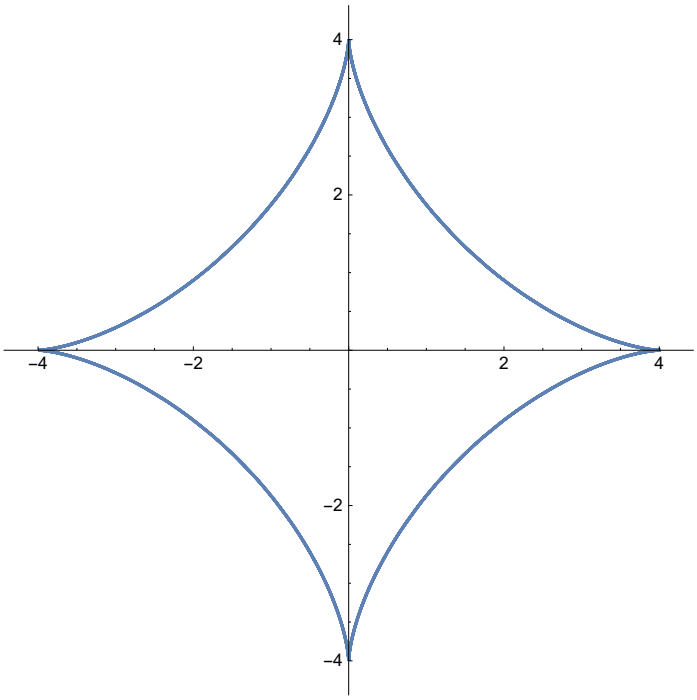


18. Astroīda

In[32]:=
```
a = 4
ParametricPlot[{a * (Cos[t]^3), a * (Sin[t]^3)}, {t, -4 Pi, 4 Pi}]
```

Out[32]= 4

Out[33]=

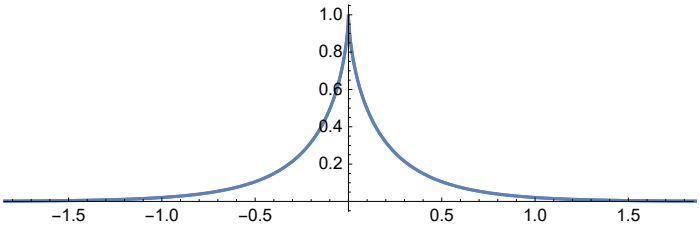


19. Traktrise

In[34]:=
```
a = 1
ParametricPlot[{a * (Cos[t] + Log[e, Tan[t/2]]), a * (Sin[t]^3)}, {t, -2 Pi, 2 Pi}]
```

Out[34]= 1

Out[35]=

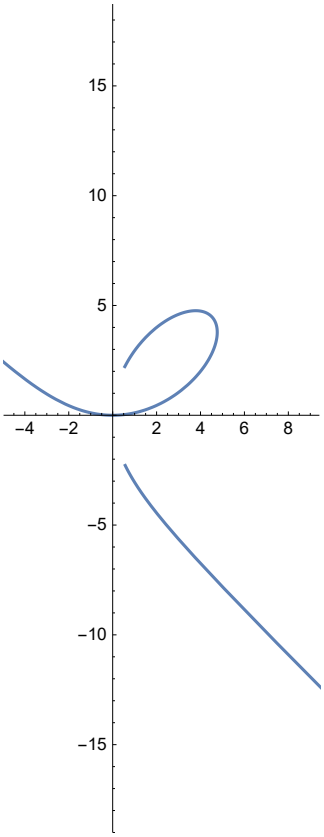


20. Dekarta lapa

In[36]:=
```
a = 3
ParametricPlot[{(3 * a * t)/(1 + t^3), (3 * a * t^2)/(1 + t^3)}, {t, -4, 4}]
```

Out[36]= 3

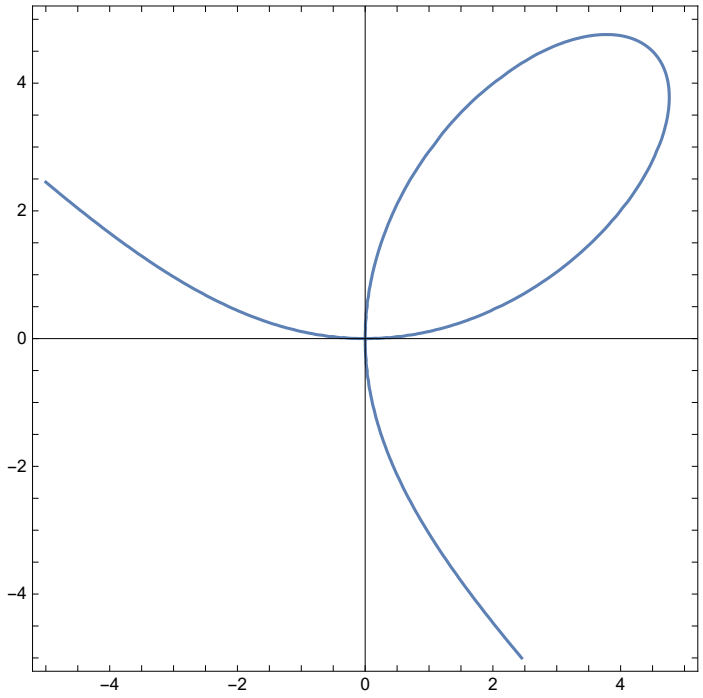
Out[37]=



In[38]:=
```
a = 3
ContourPlot[x^3 + y^3 - 3 * a * x * y == 0, {x, -5, 5}, {y, -5, 5}, Axes -> True]
```

Out[38]= 3

Out[39]=

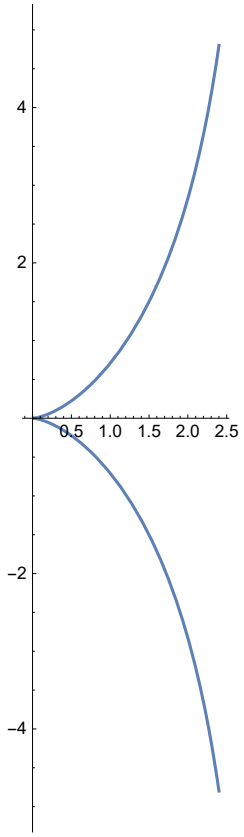


21. Dioklēsa cisoīda

In[40]:=
```
a = 3
ParametricPlot[{(a * t^2)/(1 + t^2), (a * t^3)/(1 + t^2)}, {t, -2, 2}]
```

Out[40]= 3

Out[41]=

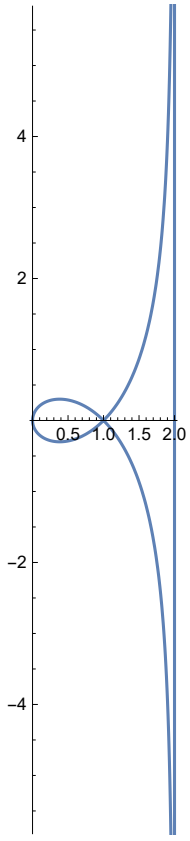


22. Strofoīda

In[42]:=
```
a = 1
PolarPlot[a * (1 + Sin[t]) / Cos[t], {t, 0, 2 Pi}]
```

Out[42]= 1

Out[43]=

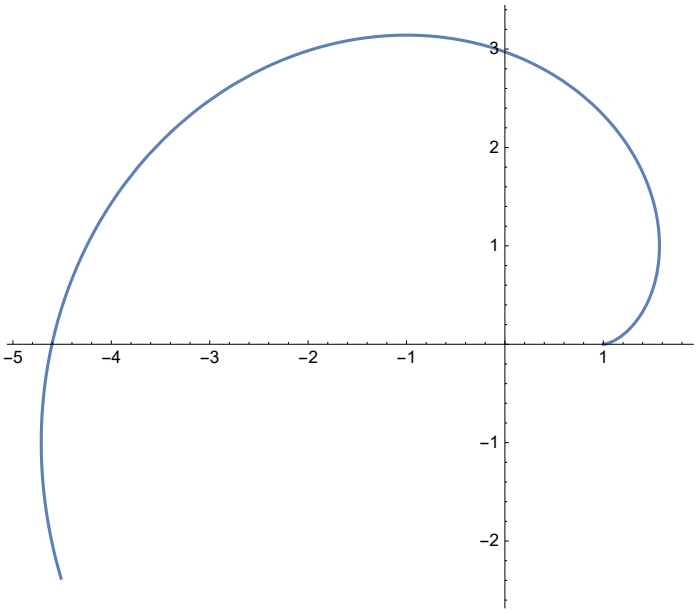


23. Riņķa evolvente

In[44]:=
```
a = 1
ParametricPlot[{a * (Cos[t] + t * Sin[t]), a * (Sin[t] - t * Cos[t])}, {t, 0, 5}]
```

Out[44]= 1

Out[45]=

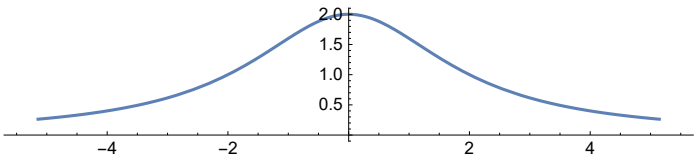


24. Anjēzes līnija

In[46]:=
```
a = 1
ParametricPlot[{2 * a * Tan[t], 2 * a * (Cos[t])^2}, {t, -1.2, 1.2}]
```

Out[46]= 1

Out[47]=

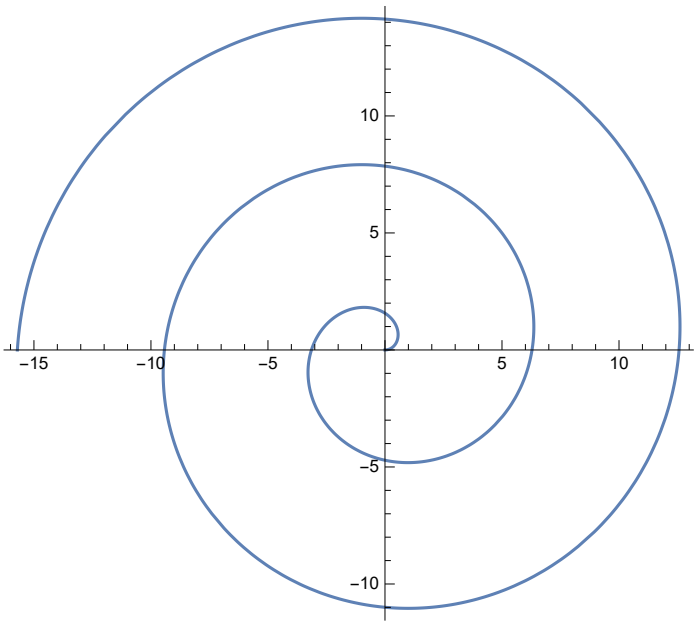


25. Arhimeda spirāle

In[48]:=
```
a = 1
PolarPlot[a * ϕ, {ϕ, 0, 5 Pi}]
```

Out[48]= 1

Out[49]=

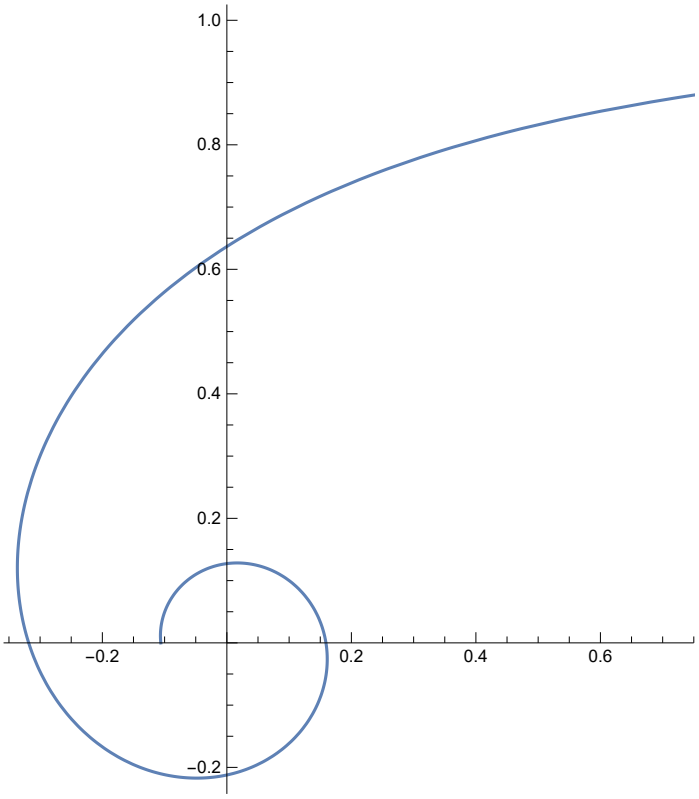


26. Hiperboliskā spirāle

In[50]:=
```
a = 1
PolarPlot[a/ϕ, {ϕ, 0, 3 Pi}]
```

Out[50]= 1

Out[51]=

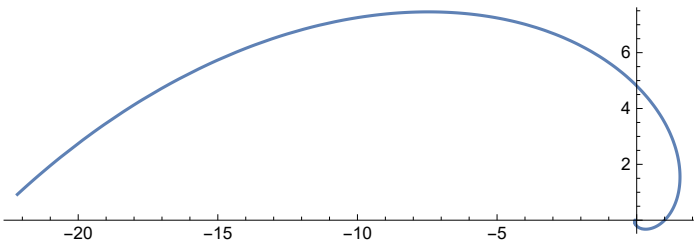


27. Logaritmiskā spirāle

In[52]:=
```
a = 1
PolarPlot[e^(a*ϕ), {ϕ, -3.1, 3.1}]
```

Out[52]= 1

Out[53]=

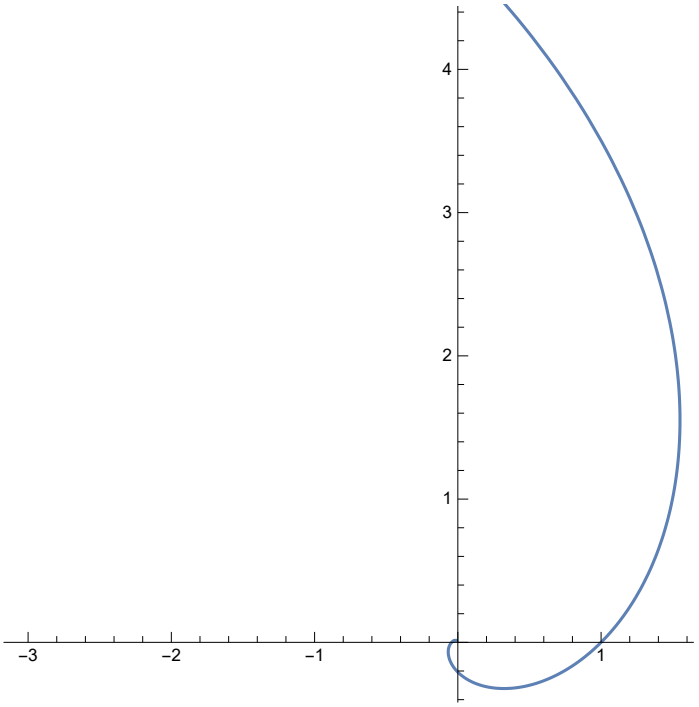


vai

In[54]:=
```
a = 1
PolarPlot[E^(a * ϕ), {ϕ, -4, 2}]
```

Out[54]= 1

Out[55]=



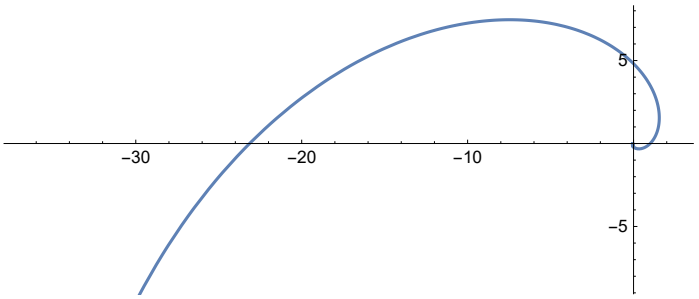
vai

In[56]:=
```
a = 1
b = 1
ParametricPlot[{a * E^(b * t) * Cos[t], a * E^(b * t) * Sin[t]}, {t, -3, 4}]
```

Out[56]= 1

Out[57]= 1

Out[58]=

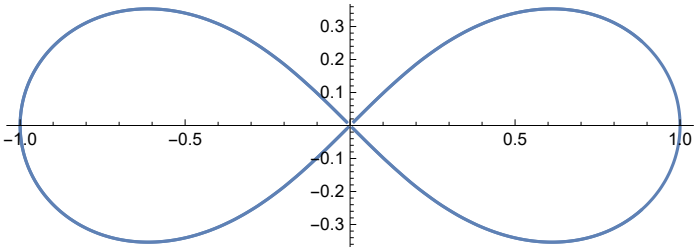


28. Bernulli lemniskata

In[59]:=
```
a = 1
PolarPlot[Sqrt[a^2 * Cos[2 ϕ]], {ϕ, -6, 6}]
```

Out[59]= 1

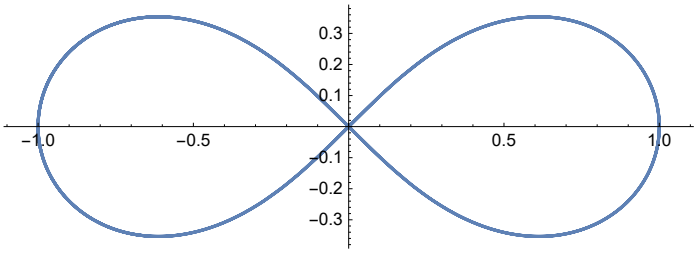
Out[60]=



In[61]:=
```
a = 1
ParametricPlot[{(a * Cos[t])/(1 + (Sin[t])^2), (a * Sin[t] * Cos[t])/(1 + (Sin[t])^2)}, {t, -10, 10}]
```

Out[61]= 1

Out[62]=



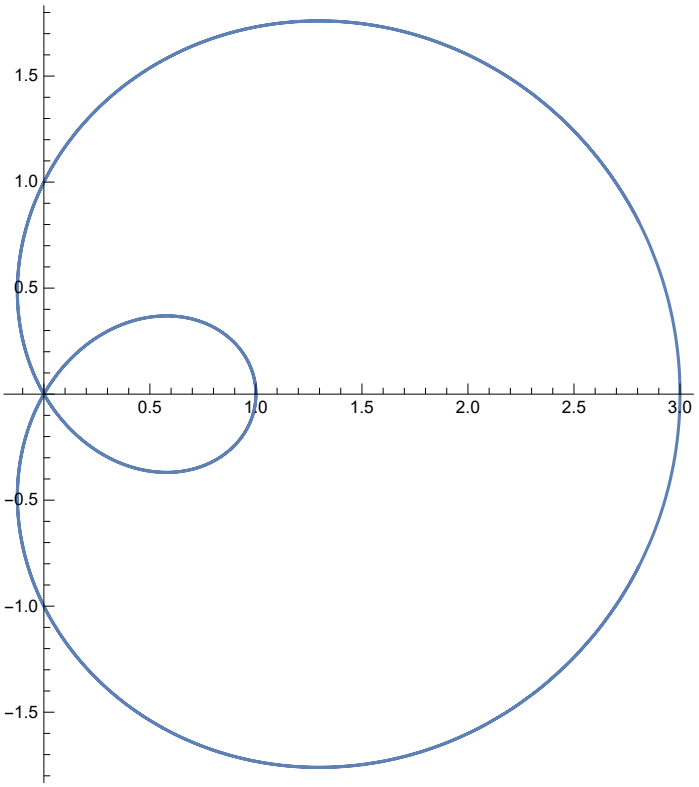
29. Paskāla līkne

In[63]:=
```
a = 2
b = 1
PolarPlot[b + a * Cos[ϕ], {ϕ, -6, 6}]
```

Out[63]= 2

Out[64]= 1

Out[65]=

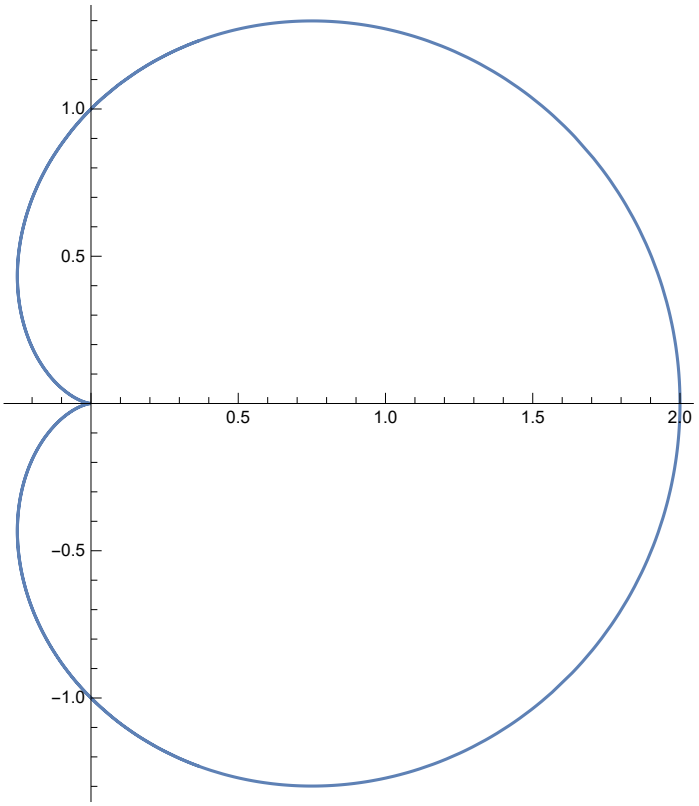


30. Kordioīda

In[66]:=
```
a = 1
PolarPlot[a * (1 + Cos[ϕ]), {ϕ, -5, 5}]
```

Out[66]= 1

Out[67]=

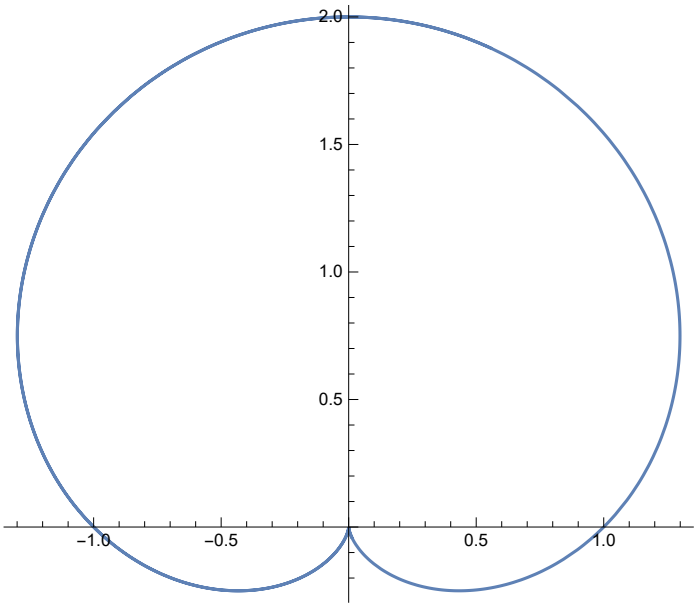


31. Kardioīda

In[68]:=
```
a = 1
PolarPlot[a * (1 + Sin[ϕ]), {ϕ, -5, 5}]
```

Out[68]= 1

Out[69]=

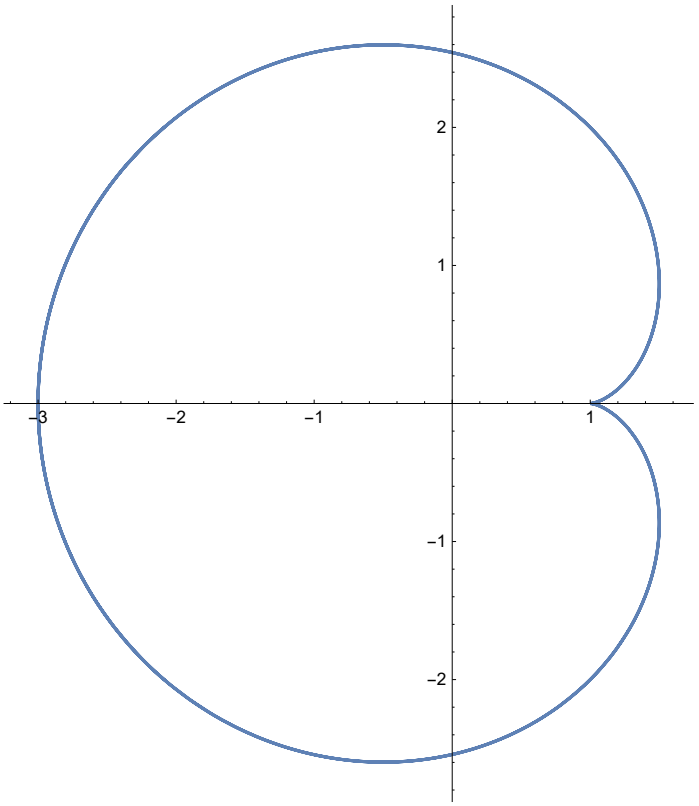


32. Kardioīda

In[70]:=
```
a = 1
ParametricPlot[{a * (2 * Cos[t] - Cos[2 t]), a * (2 * Sin[t] - Sin[2 t])}, {t, -10, 10}]
```

Out[70]= 1

Out[71]=

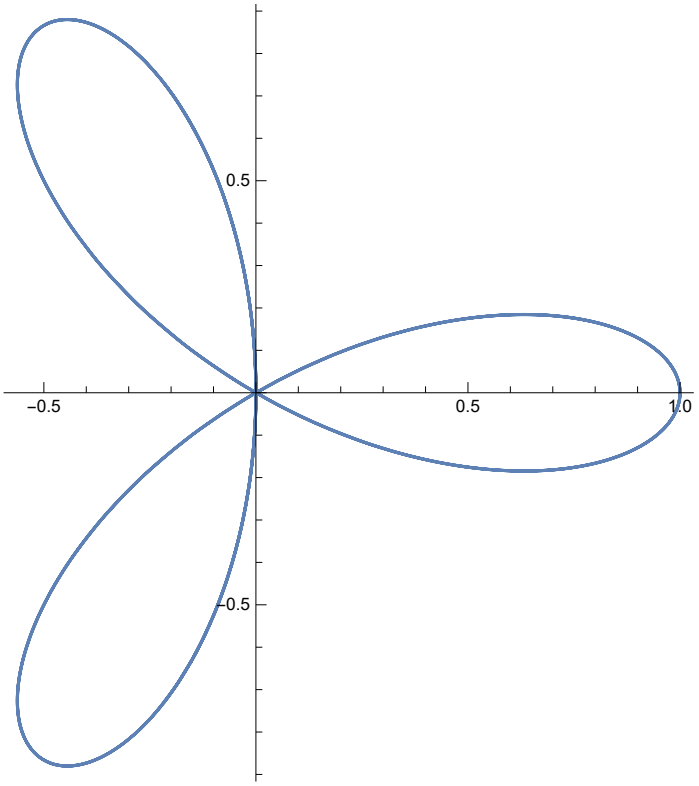


33. Trīslapu roze

In[72]:=
```
a = 1
PolarPlot[a * Cos[3 * ϕ], {ϕ, -5, 5}]
```

Out[72]= 1

Out[73]=

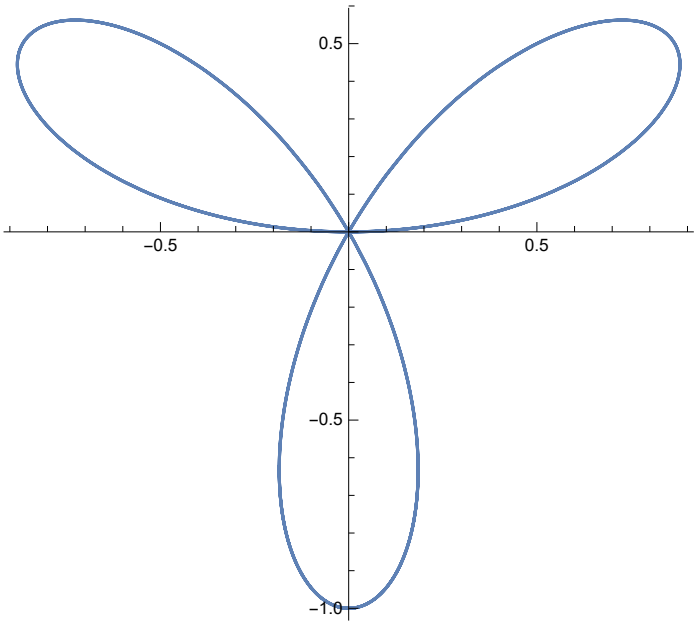


34. Trīslapu roze

In[74]:=
```
a = 1
PolarPlot[a * Sin[3 * ϕ], {ϕ, -5, 5}]
```

Out[74]= 1

Out[75]=

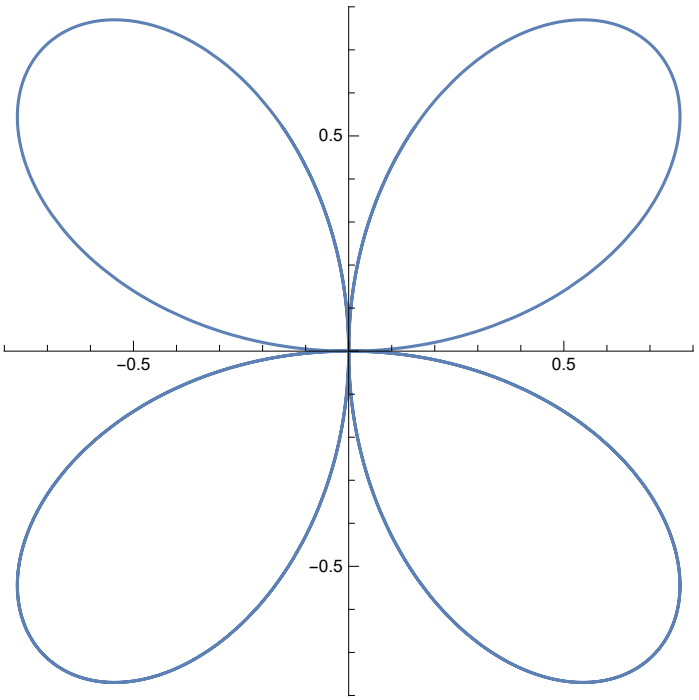


35. Četrlapu roze

In[76]:=
```
a = 1
PolarPlot[a * Sin[2 * ϕ], {ϕ, -5, 5}]
```

Out[76]= 1

Out[77]=

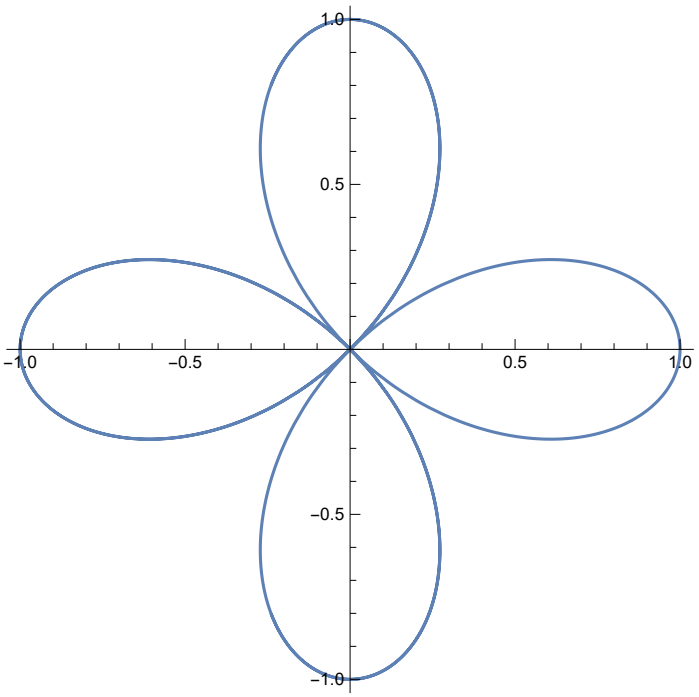


36. Četrlapu roze

In[78]:=
```
a = 1
PolarPlot[a * Cos[2 * ϕ], {ϕ, -5, 5}]
```

Out[78]= 1

Out[79]=

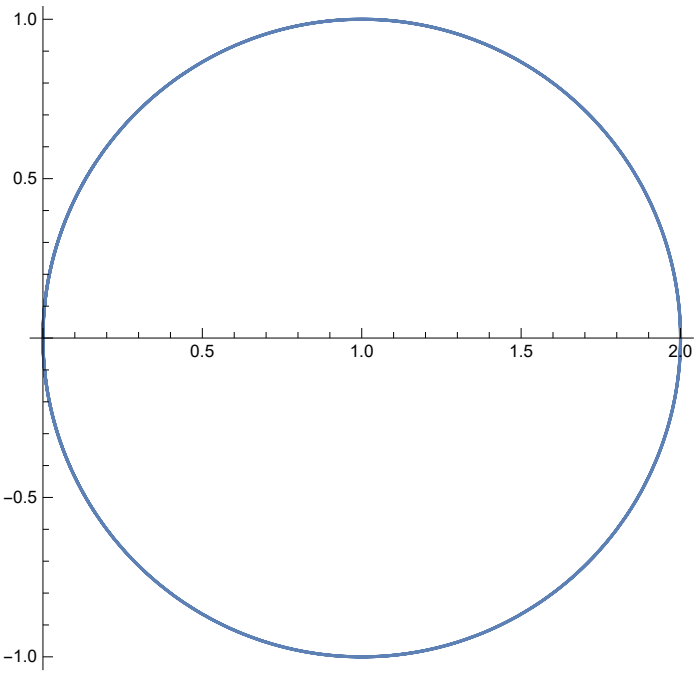


37. Riņķa līnija

In[80]:=
```
a = 1
PolarPlot[2 * a * Cos[ϕ], {ϕ, -5, 5}]
```

Out[80]= 1

Out[81]=

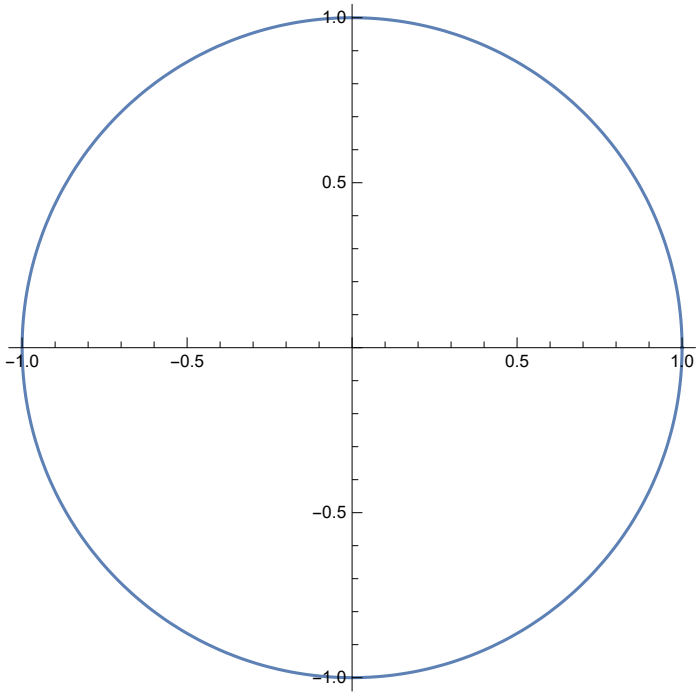


38. Riņķa līnija

In[82]:=
```
a = 1
PolarPlot[a, {ϕ, 0, 2 Pi}]
```

Out[82]= 1

Out[83]=

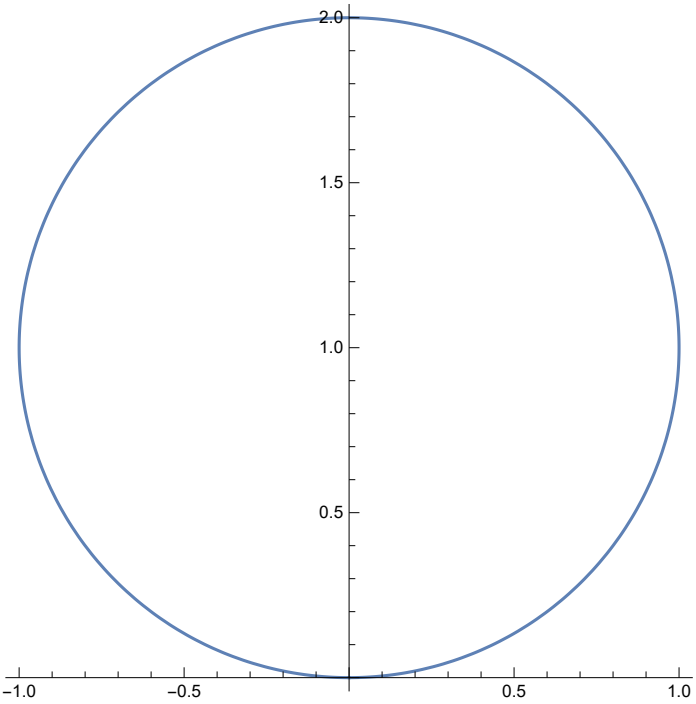


39. Riņķa līnija

In[84]:=
```
a = 1
PolarPlot[2 * a * Sin[ϕ], {ϕ, 0, Pi}]
```

Out[84]= 1

Out[85]=



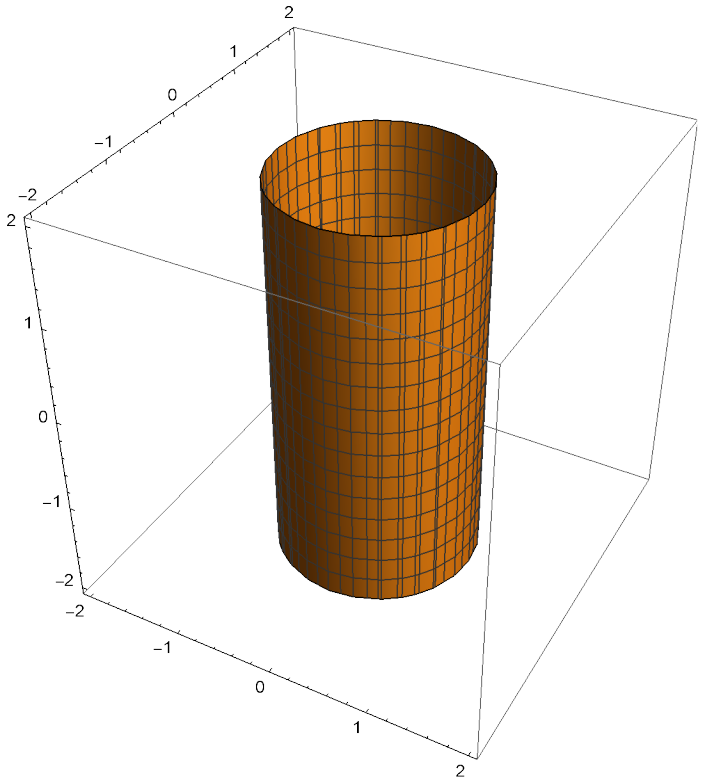
Stereometrija

1. Riņķa cilindrs

In[86]:=
```
r = 1
ContourPlot3D[x^2 + y^2 == r^2, {x, -2, 2}, {y, -2, 2}, {z, -2, 2}]
```

Out[86]= 1

Out[87]=

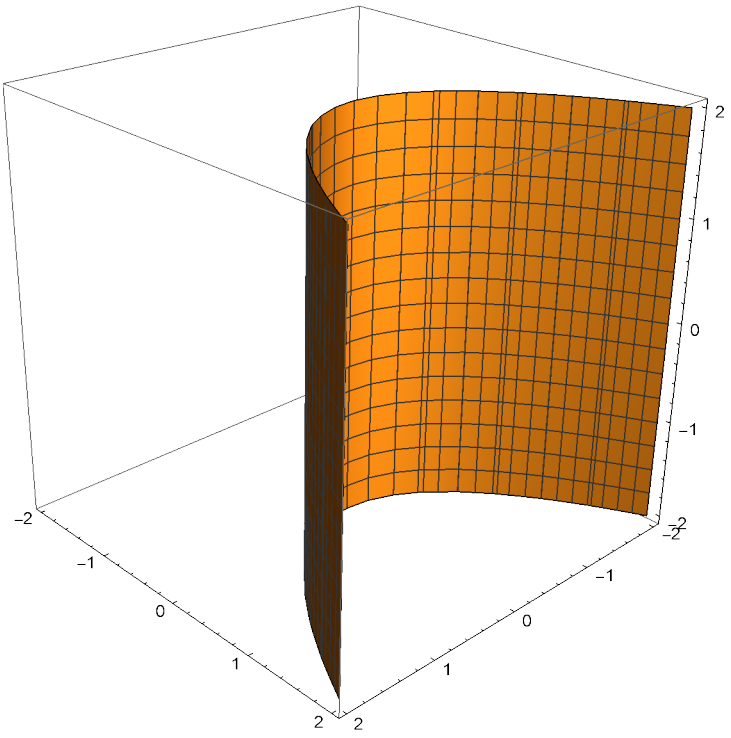


2. Paraboliskais cilindrs

In[88]:=
```
p = 1
ContourPlot3D[x^2 == 2 * p * y, {x, -2, 2}, {y, -2, 2}, {z, -2, 2}]
```

Out[88]= 1

Out[89]=



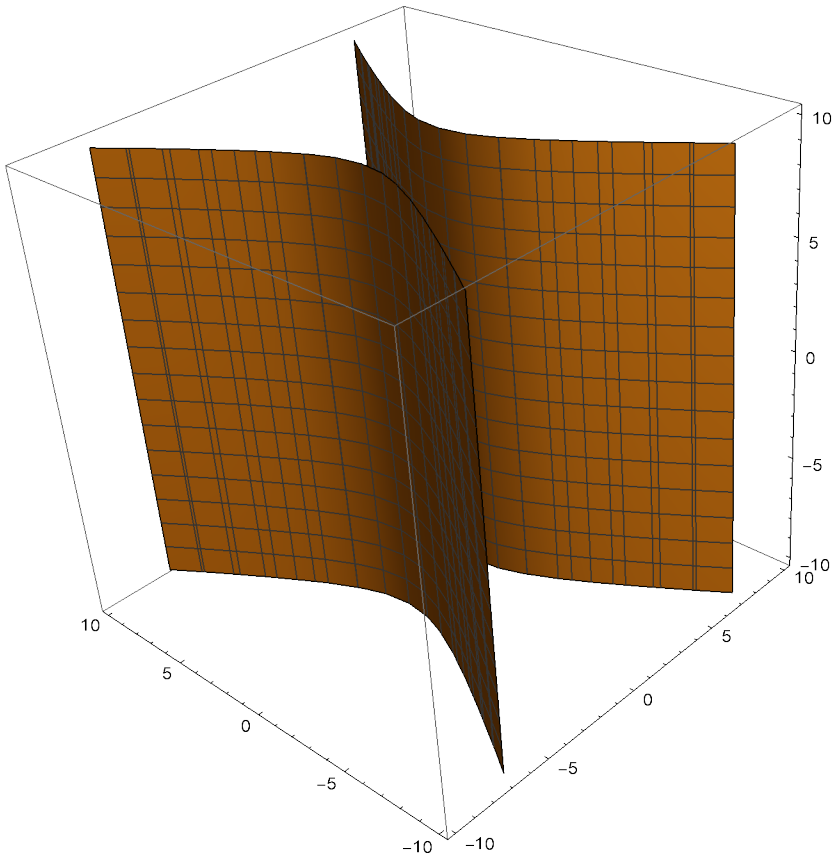
3. Hiperboliskais cilindrs

In[90]:=
```
a = 2
b = 3
ContourPlot3D[x^2 / a^2 - y^2 / b^2 == 1, {x, -10, 10}, {y, -10, 10}, {z, -10, 10}]
```

Out[90]= 2

Out[91]= 3

Out[92]=

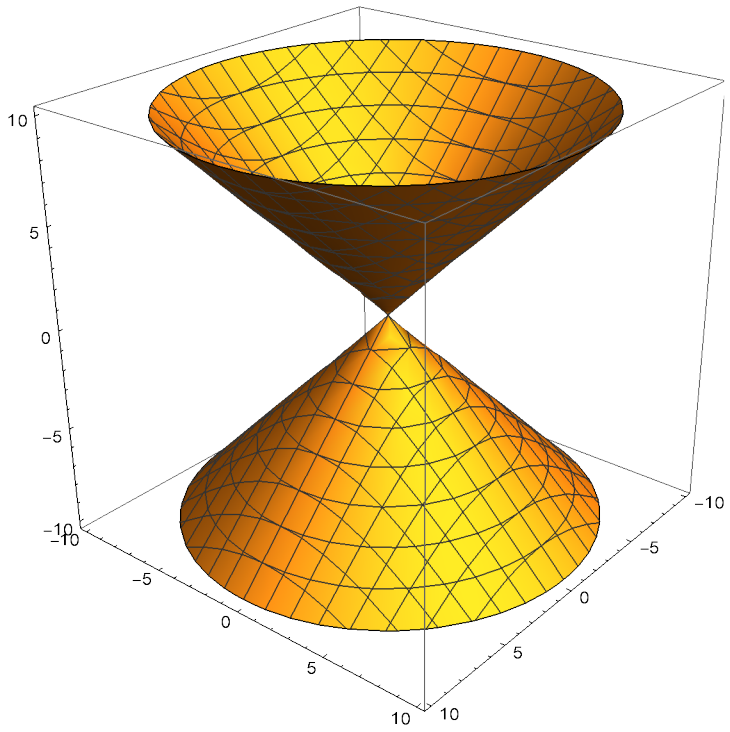


4. Konuss

In[93]:=
```
a = 1
ContourPlot3D[x^2 + y^2 == a^2 * z^2, {x, -10, 10}, {y, -10, 10}, {z, -10, 10}]
```

Out[93]= 1

Out[94]=



5. Sfēra

In[95]:=
```
a = 0
b = 0
c = 0
R = 1
ContourPlot3D[(x - a)^2 + (y - b)^2 + (z - c)^2 == R^2, {x, -1, 1}, {y, -1, 1}, {z, -1, 1}]
```

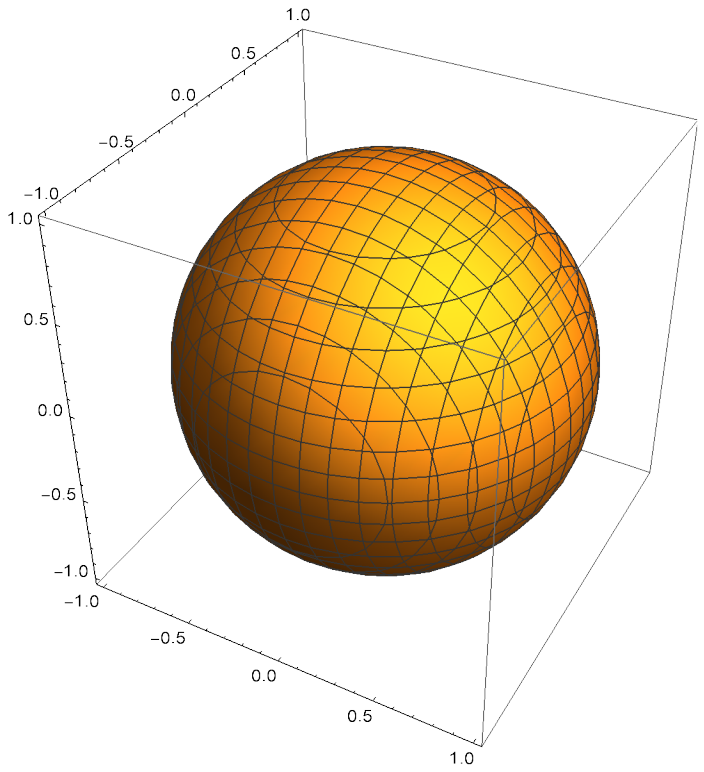
Out[95]= 0

Out[96]= 0

Out[97]= 0

Out[98]= 1

Out[99]=



6. Elipsoīds

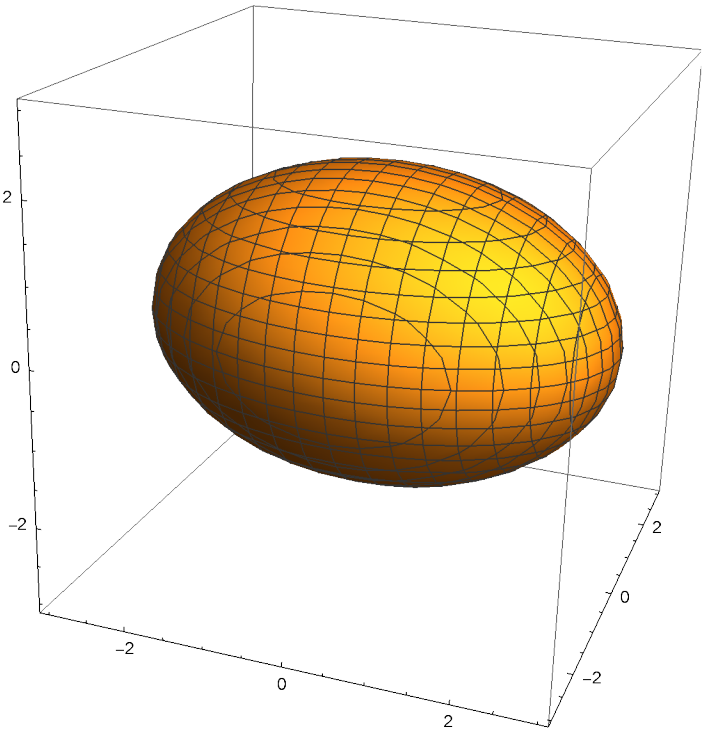
In[100]:=
```
a = 3
b = 2
c = 2
ContourPlot3D[x^2 / a^2 + y^2 / b^2 + z^2 / c^2 == 1, {x, -3, 3}, {y, -3, 3}, {z, -3, 3}]
```

Out[100]= 3

Out[101]= 2

Out[102]= 2

Out[103]=



7. Viendobuma hiperboloīds

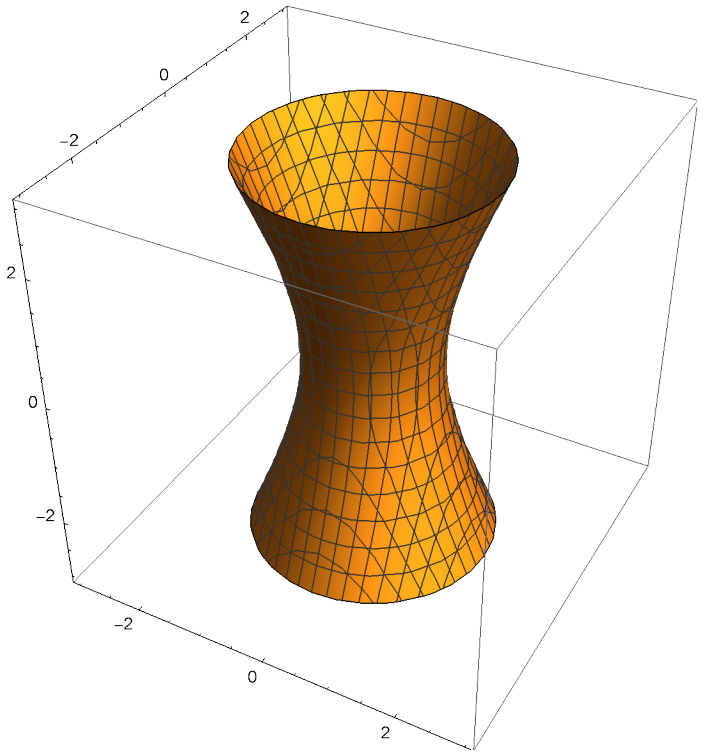
In[104]:=
```
a = 1
b = 1
c = 2
ContourPlot3D[x^2 / a^2 + y^2 / b^2 - z^2 / c^2 == 1, {x, -3, 3}, {y, -3, 3}, {z, -3, 3}]
```

Out[104]= 1

Out[105]= 1

Out[106]= 2

Out[107]=



8. Divdobumu hiperboloīds

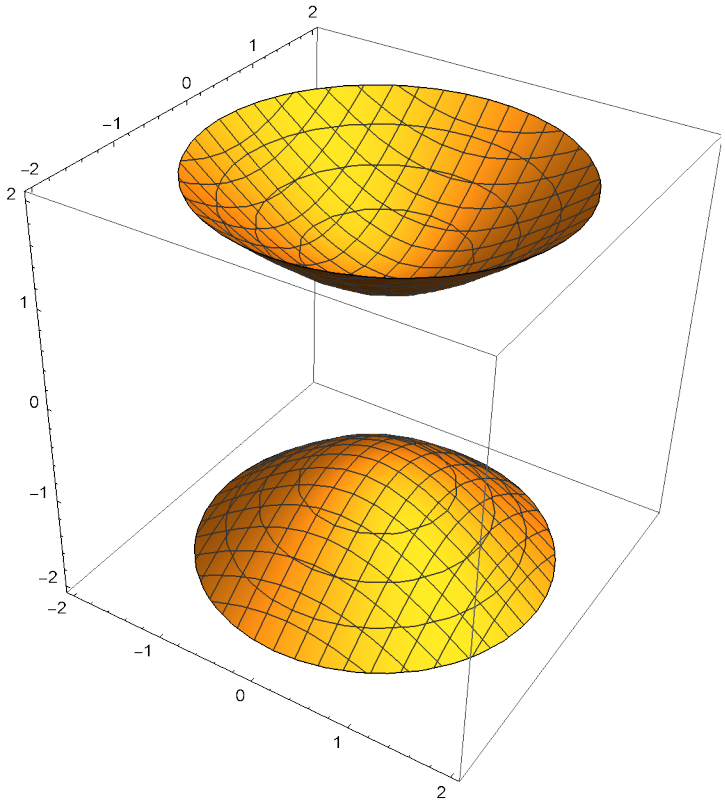
In[108]:=
```
a = 1
b = 1
c = 1
ContourPlot3D[x^2 / a^2 + y^2 / b^2 - z^2 / c^2 == -1, {x, -2, 2}, {y, -2, 2}, {z, -2, 2}]
```

Out[108]= 1

Out[109]= 1

Out[110]= 1

Out[111]=



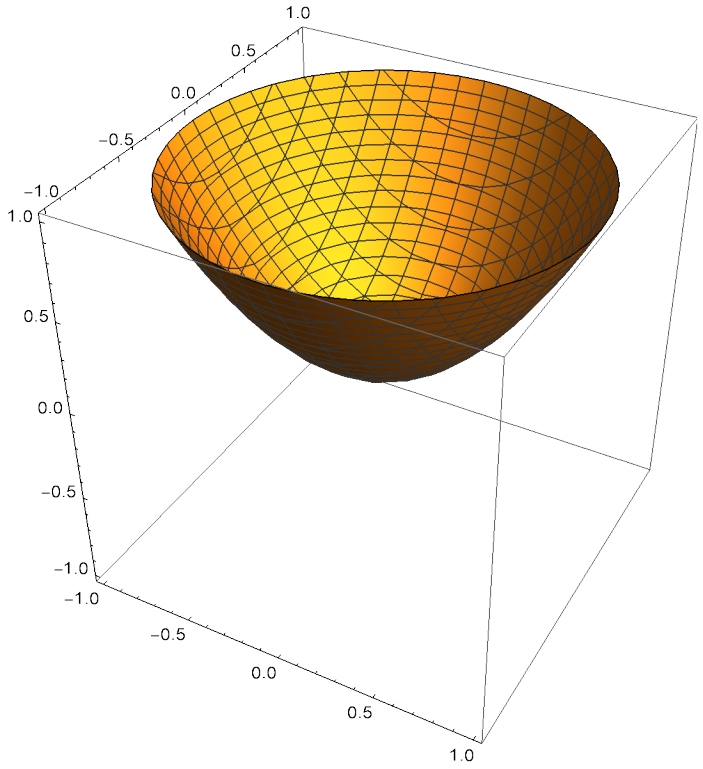
9. Eliptiskais paraboloīds

In[112]:=
```
a = 1
b = 1
ContourPlot3D[x^2/a^2 + y^2/b^2 == z, {x, -1, 1}, {y, -1, 1}, {z, -1, 1}]
```

Out[112]= 1

Out[113]= 1

Out[114]=



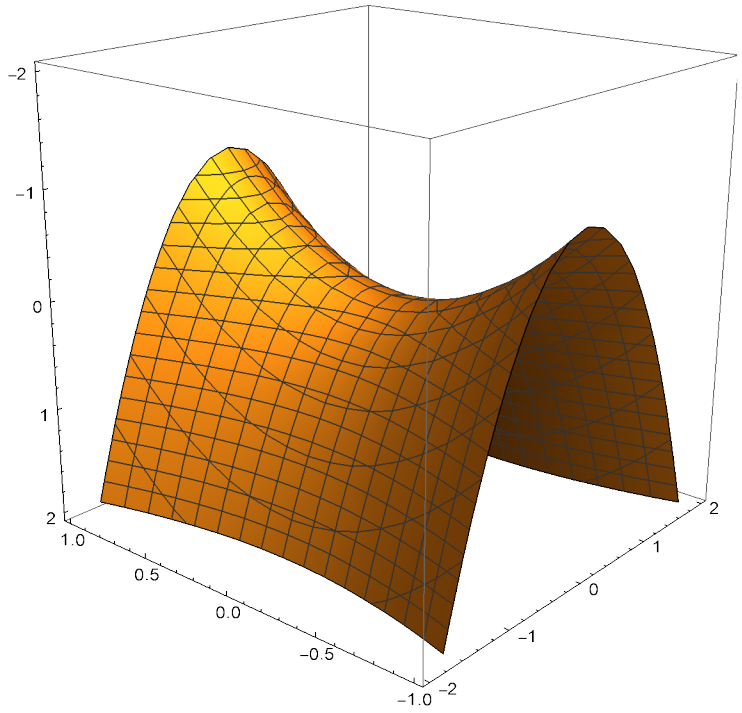
10. Hiperboliskais paraboloīds (seglu virsma)

In[115]:=
```
a = 1
b = 1
ContourPlot3D[x^2/a^2 - y^2/b^2 == -z, {x, -1, 1}, {y, -2, 2}, {z, -2, 2}]
```

Out[115]= 1

Out[116]= 1

Out[117]=



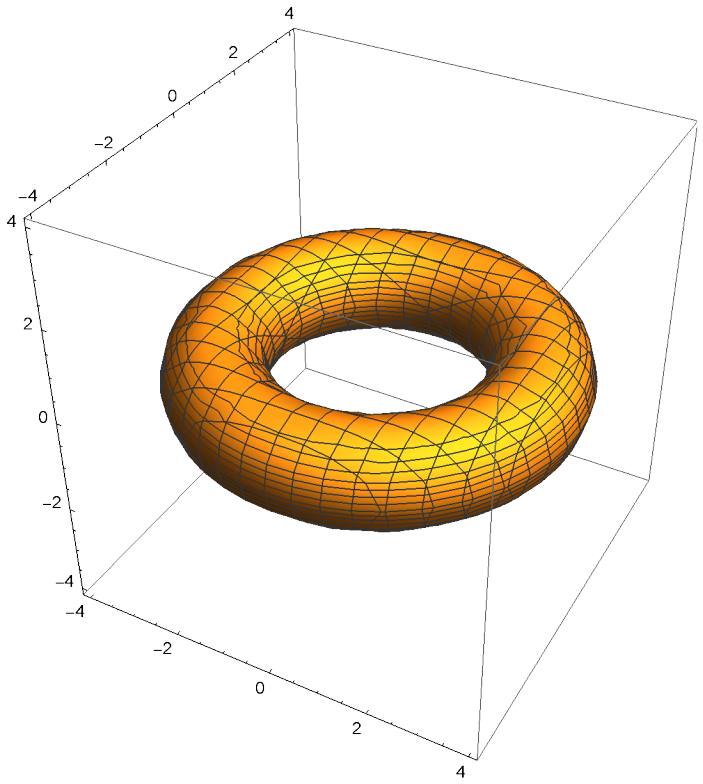
11. Tors

In[118]:=
```
a = 3
b = 1
ContourPlot3D[(x^2 + y^2 + z^2 + a^2 - b^2)^2 == 4 * a^2 * (x^2 + y^2), {x, -4, 4}, {y, -4, 4}, {z, -4, 4}]
```

Out[118]= 3

Out[119]= 1

Out[120]=



12. Katenoīds

In[121]:=
```
a = 1
b = 1
ContourPlot3D[(y^2 + z^2) == a^2/4 (e^(x/a) + e^(-x/a))^2, {x, -3, 3}, {y, -3, 3}, {z, -3, 3}]
```

Out[121]= 1

Out[122]= 1

Out[123]=