

(* CILINDRUL ELIPTIC *)

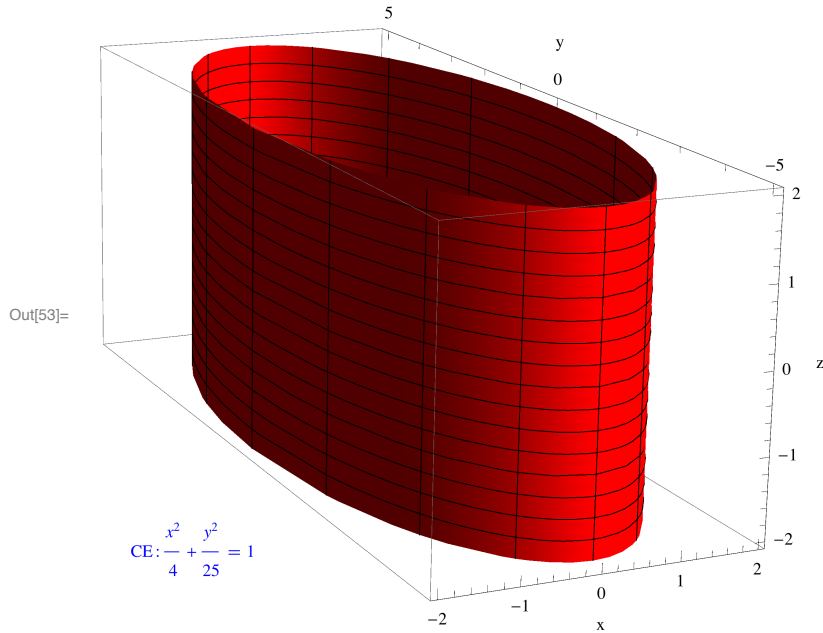
```
In[1]:= a = 2;
        b = 5;
```

```
In[26]:= cilindruE = ParametricPlot3D[{a Cos[t], b Sin[t], z},
    {t, 0, 2 Pi}, {z, -2, 2}, PlotStyle -> Red, AxesLabel -> {"x", "y", "z"}];
```

```
In[52]:= TxtCilE =
```

```
Graphics3D[{Blue, Thickness[0.03], Text[CE :  $\frac{x^2}{a^2} + \frac{y^2}{b^2} == 1$ , {-2, 2, -4}]}];
```

```
In[53]:= Show[cilindruE, TxtCilE]
```



(* CILINDRUL HIPERBOLIC *)

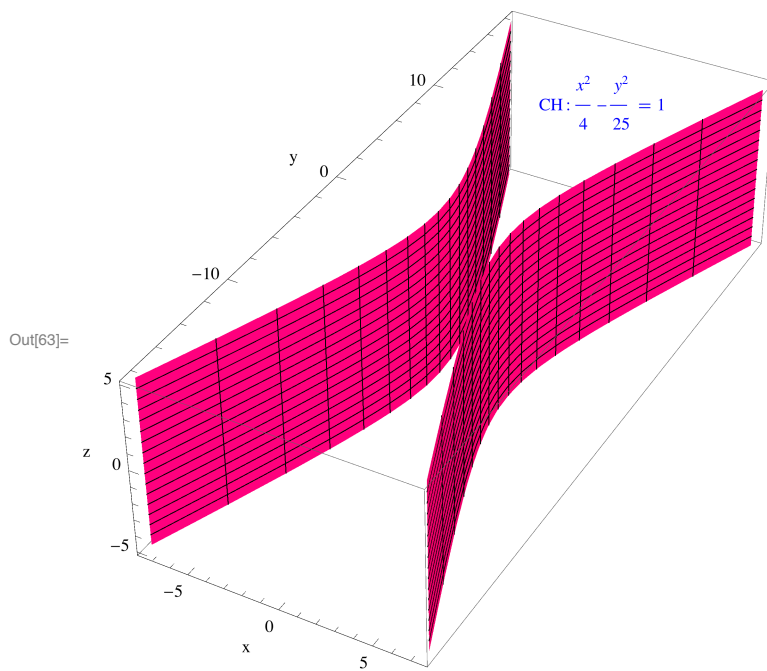
```
In[37]:= a = 2;
        b = 5;
```

```
In[43]:= cilindruH =
    ParametricPlot3D[{a Cosh[t], b Sinh[t], z}, {-a Cosh[t], b Sinh[t], z},
    {t, -2, 2}, {z, -5, 5}, PlotStyle -> Magenta, AxesLabel -> {"x", "y", "z"}];
```

```
In[62]:= TxtCilH =
```

```
Graphics3D[{Blue, Thickness[0.03], Text[CH :  $\frac{x^2}{a^2} - \frac{y^2}{b^2} == 1$ , {2, 10, 7}]}];
```

```
In[63]:= Show[cilindruH, TxtCilH]
```



(* CILINDRUL PARABOLIC *)

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In[64]:= p = 3;
```

```
In[72]:= cilindruP = ParametricPlot3D[{- $\frac{y^2}{2p}$ , y, z}, {y, -7, 7},
    {z, -5, 5}, PlotStyle -> Magenta, AxesLabel -> {"x", "y", "z"}];
```

```
In[79]:= TxtCilP = Graphics3D[{Blue, Thickness[0.03], Text[CP:  $y^2 = -2p x$ , {-8, 0, 3}]}];
```

```
In[80]:= Show[cilindruP, TxtCilP]
```

Out[80]=

