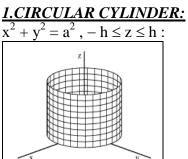
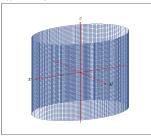
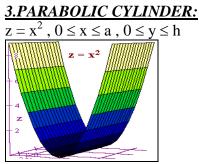
Standard Surfaces



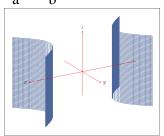
$$\frac{2.ELLIPTIC\ CYLINDER}{\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1, -h \le z \le h$$



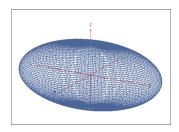


4.HYPERBOLIC CYLINDER:

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1, -h \le z \le h$$



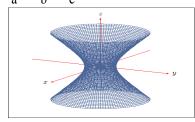
5. Ellipsoid
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$$
 $\frac{10.ELLIPTIC \ PARABOLOID:}{\frac{z}{c} = \frac{x^2}{a^2} + \frac{y^2}{b^2}, 0 \le z \le h}$



6. Sphere $x^2 + y^2 + z^2 = a^2$

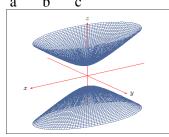


7. Hyperboloid of one sheet
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$$



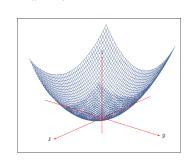
8. Hyperboloid of two sheet

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$$



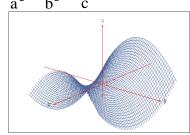
$$z = x^2 + y^2, 0 \le z \le h$$

$$\frac{z}{c} = \frac{x^2}{a^2} + \frac{y^2}{b^2}, 0 \le z \le h$$



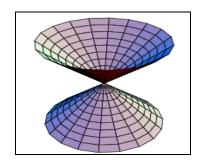
11.HYPERBOLIC PARABOLOID:

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = \frac{z}{c}$$

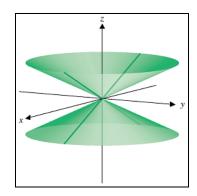


12 . CIRCULAR CONE : $z^2 = x^2 + y^2$

$$z^2 = x^2 + y^2$$



13. ELLIPTIC CONE :
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = \frac{z^2}{c^2}$$



14. Helicoid

$$\frac{y}{x} = \tan\left(\frac{z}{c}\right)$$

