

# 15-MAVZU

IKKINCHI TARTIBLI SIRTLAR VA  
ULARNI KANONIK KO'RINISHGA  
KELTIRISH

# ***UMUMIY KO'RINISHI***

$$Ax^2 + By^2 + Cz^2 + 2Dxy + 2Exz + 2Fyz + 2Gx + 2Hy + 2Iz + Y = 0$$

# ***Ellipsoid***

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

***a = b = c holda***

***$x^2 + y^2 + z^2 = a^2$  sfera***

***tenqlamasi***

# ***BIR PALLALI GIPERBOLID***

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

# **IKKI PALLALI GIPERBOLID**

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

# **KONUS**

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

# **ELLIPTIK PARAPOLID**

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

# **GIPERBOLIK PARABOLID**

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



# ***ELLIPTIK SILINDR***

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

# ***GIPERBOLIK SILINDR***

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

# ***PARABOLIK SILINDR***

$$*y^2 = 2px*$$

# ***IKKI KESISHUVCHI TEKISLIK***

$$***y^2 - k^2 x^2 = 0***$$

# ***Ikki parallel tekislik***

$$y^2 - k^2 = 0$$

# ***TO'G'RI CHIZIQ***

$$***x^2 + y^2 = 0***$$

# ***NUQTA***

$$***x^2 + y^2 + z^2 = 0***$$

# ***BO'SH TO'PLAM***

$$***x^2 + y^2 + z^2 = -1***$$