QUADRIC SURFACES

| PROBLEMS				
44	45	46	47	48
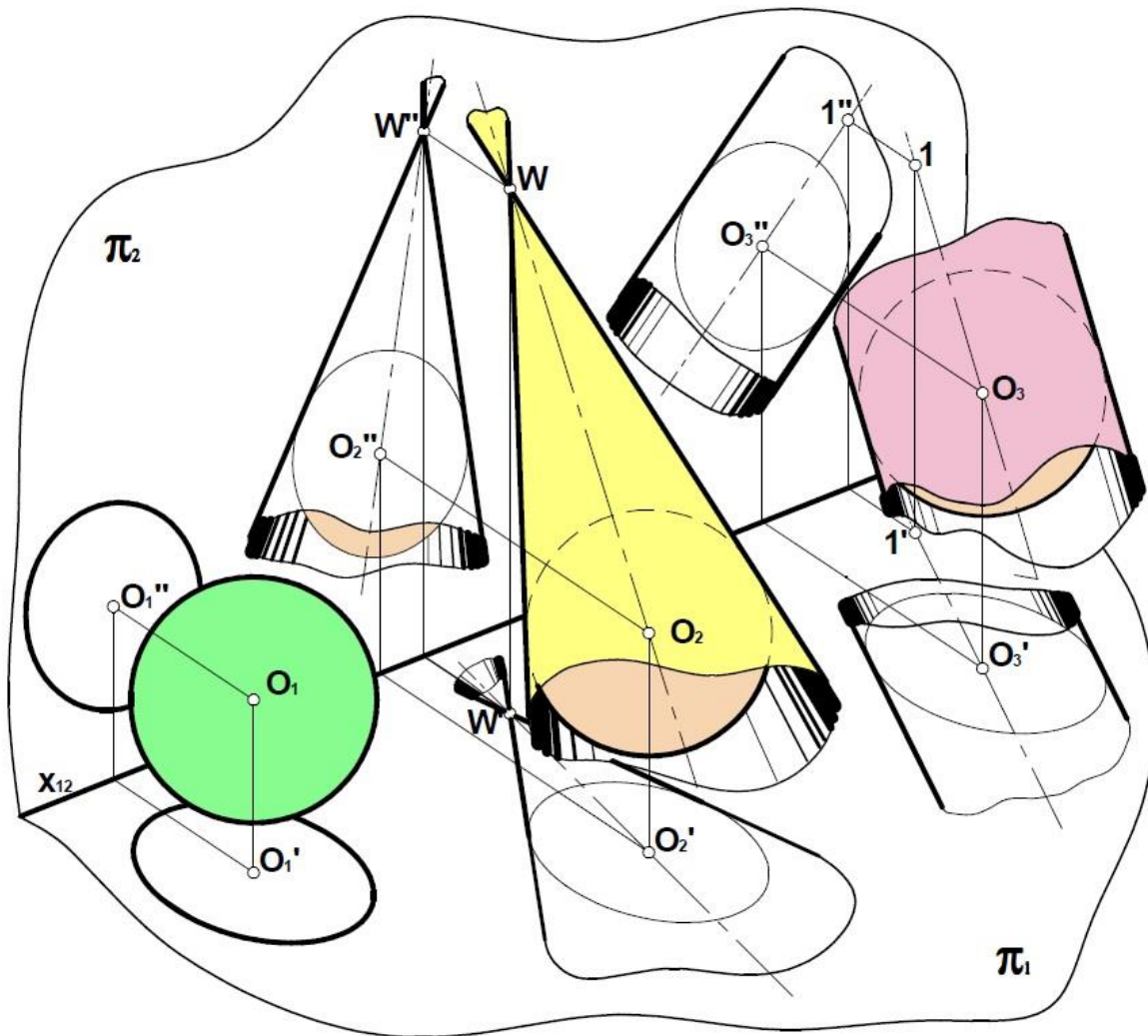
Projection of a quadric surface is limited by the contour which is a flat geometric figure.
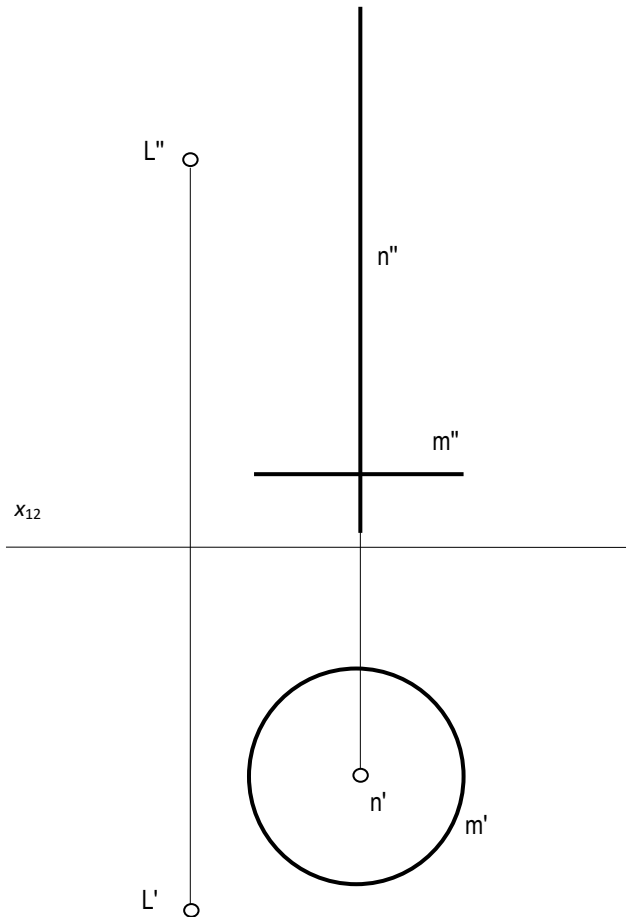
View of a point **belonging to the contour** is a view of **one point** belonging to the surface.
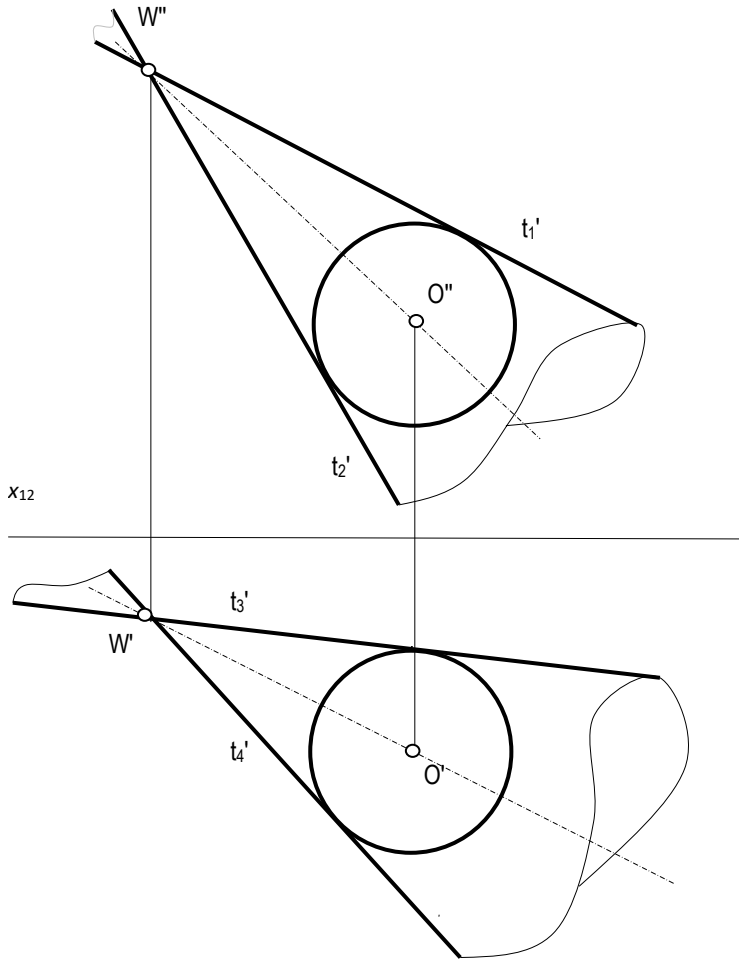
View of a point **inside the contour** is a view of **two points** belonging to the surface.

44. Determine missing views of point **A**, **B**, **C** belonging
    to the surface of the sphere

A"

O"

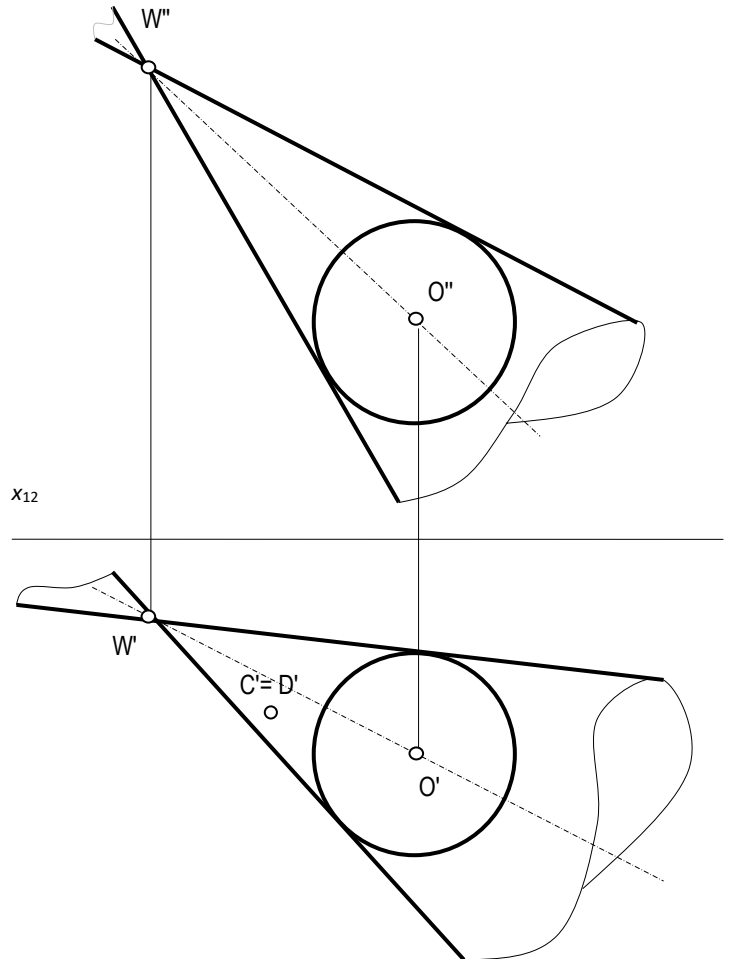x_{12}

B'= C'

O'

L"

n"
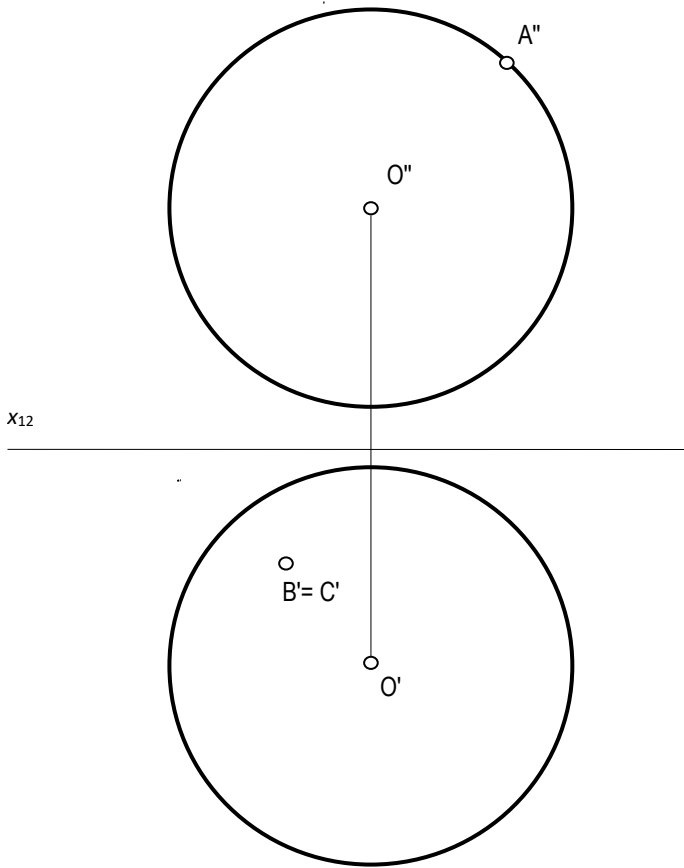
45. The center of the sphere belongs to the line
    n. Point **L** and circle **m** belong to the
    sphere's surface. Determine both views
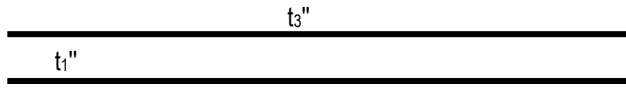   (outline) of the sphere.

m"

x_{12}

n'

m'

L'

2

W"

t_1'

O"

t_2'

x_{12}

t_3'

W'

t_4'

O'

46. Find missing views of contour generatrices
t_1, t_2, t_3, t_4 of the cone's surface

W"

O"

x_{12}

W'

C' = D'

O'

47. Find missing views of points **C** and **D**
belonging to the cone's surface

3

48. Determine contour generatrices of the surface of a horizontal cylinder which includes three given generatrices t_1, t_2 and t_3, where $t_1 \| t_2 \| t_3 \| \pi_1$, Determine also the missing view of point **A** belonging to the surface.

t_2''

t_3''

t_1''

x_{12}

t_3'

t_1'

$\circ$ A'

t_2'