

1. $x^2 + y^2 + (z+3)^2 = 25$ and $z=0$

$$x^2 + y^2 + 3^2 = 25$$

$$x^2 + y^2 = 25 - 9 = 16$$

$$x^2 + y^2 = 16$$

The circle $x^2 + y^2 = 16$ in xy -plane

2. The sphere touches xz -plane at point $(2, 0, 6)$ the radius of the sphere is

$$\sqrt{(2-2)^2 + (-3-0)^2 + (6-6)^2}$$

$$= 3$$

$$(x-2)^2 + (y+3)^2 + (z-6)^2 = 3^2 = 9$$