## " Assignment # 06

$$x^{2}+10x+y^{2}+4y+z^{2}+2z=19$$
  
 $x^{2}+10x+25+y^{2}+4y+4+z^{2}+2z+1=19+25+9+1$ 

$$(x+5)^2 + (y+2)^2 + (2+1)^2 = 49$$

It is the equation of sphere whose general equation is

$$(\chi - \chi_0)^2 + (\chi - \chi_0)^2 + (Z - Z_0)^2 = \chi^2$$
  
 $(\chi_0, \chi_0, Z_0) = (-5, -2, -1) = \chi = 7$ 

- by 2

$$x^2 + y^2 + z^2 - x - \frac{3}{2}y + \frac{5}{2}z - 1z0$$
  
 $x^2 - x + y^2 - \frac{3}{2}y + 2^2 + \frac{5}{2}z = 1$ 

$$\frac{x^{2}-x+1+y^{2}-3y+9+2+5}{4}+\frac{2}{16}+\frac{3}{16}+\frac{3}{2}+\frac{3}{16}=\frac{13}{8}$$

The equation of sphere whose general equation is  $(x-x_0)^2 + (y-y_0)^2 + (z-z_0)^2 z^2$  $(x_0, y_0, z_0) = (\frac{1}{2}, \frac{3}{4}, -\frac{5}{4})$ 

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127) 
$$x^{2}+y^{2}+z^{2}-3x+4y-8z+25=0$$
 $x^{2}+y^{2}+2^{2}-3x+4y+2^{2}-8z+25=0$ 
 $x^{2}+y^{2}-3x+y^{2}+4y+2^{2}-8z+25=6$ 
 $x^{2}-3x+9+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+4+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+2^{2}+4y+2^{2}-8z+10=-25$ 
 $x^{2}+y^{2}+4y+2^{2}+4y+2^{2}+4y+2^{2}+4y+2^{2}+2y+2}=-11$ 
 $x^{2}+y^{2}+4y+2^{2}+4y+$ 

41)  $4x^{2}+9z^{2}=36$   $(2\pi)^{2}+(3z)^{2}=$ pur x = 0  $z^{2}=9$   $x^{2}=9$   $x^{2}=9$   $x^{2}=9$   $x^{2}=9$   $x^{2}=3$ 

