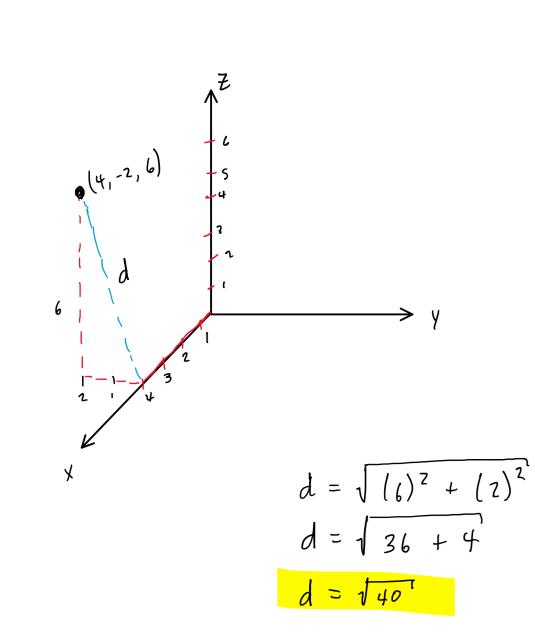
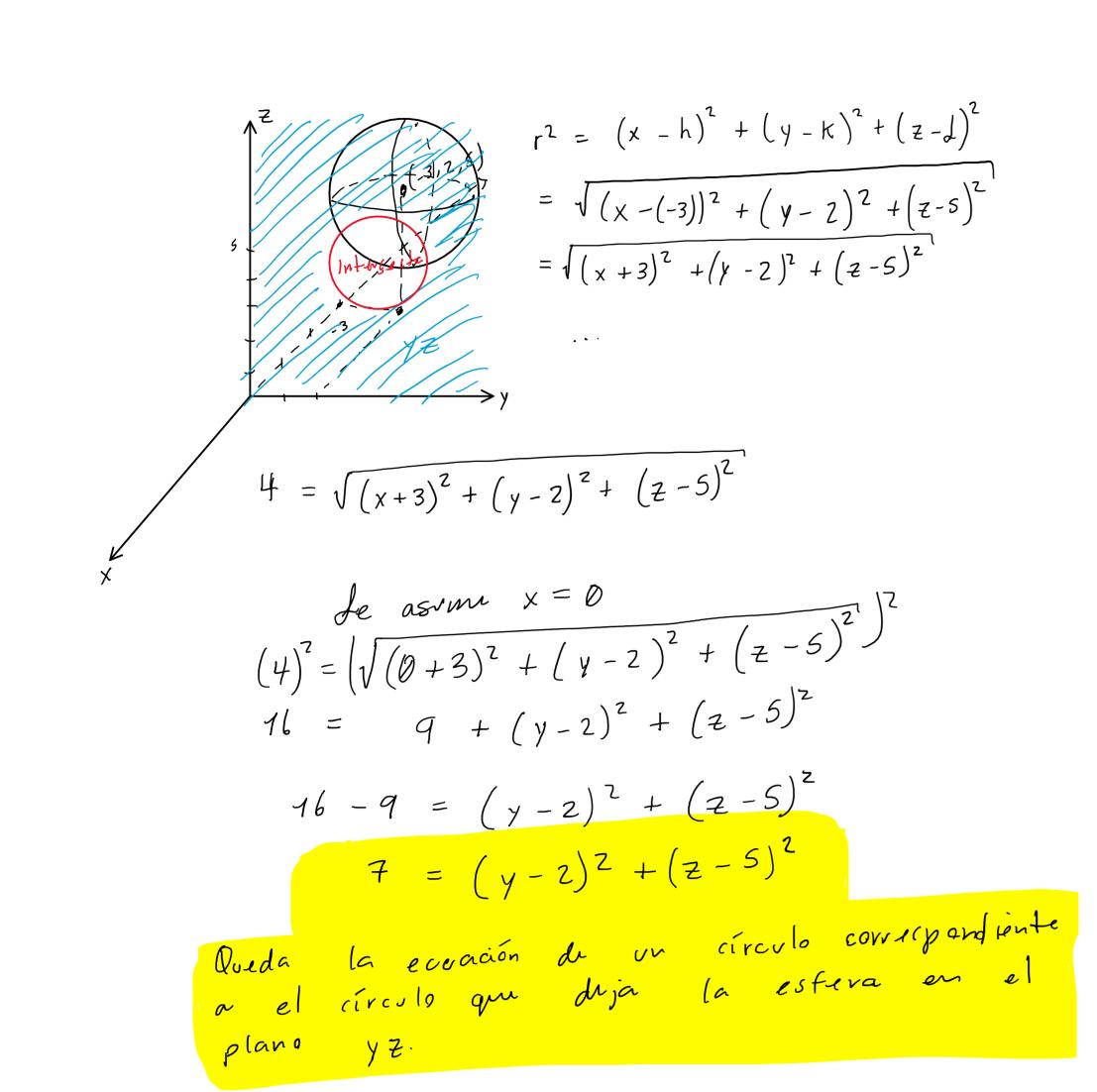
## DAVID CORZO 20190432

1) Punto (4, -2, 6) al eje x:



2) Eucación de la esfera con centro (-3,2,5) & radio 4. Intersección de la esfera con el plano yz



3) Encuentre el radio y zentro de la esfera cuya ec. es  $x^2 + y^2 + z^2 - 2x - 4y + 8z = 15$ .  $x: \left(\frac{-2}{2}\right)^2 = 1$   $y: \left(\frac{-4}{2}\right)^2 = 4$ 

 $\left[ x^{2} - 2x + 1 \right] + \left[ y^{2} - 4y + 4 \right] + \left[ z^{2} + 8z + 16 \right] = 21 + 15$ 

 $(x-1)^{2} + (y-2)^{2} + (z+4)^{2} = 36$   $\sqrt{(x-1)^{2} + (y-2)^{2} + (z+4)^{2}} = 6$ 

radio: 6 centro: (1,2,-4)

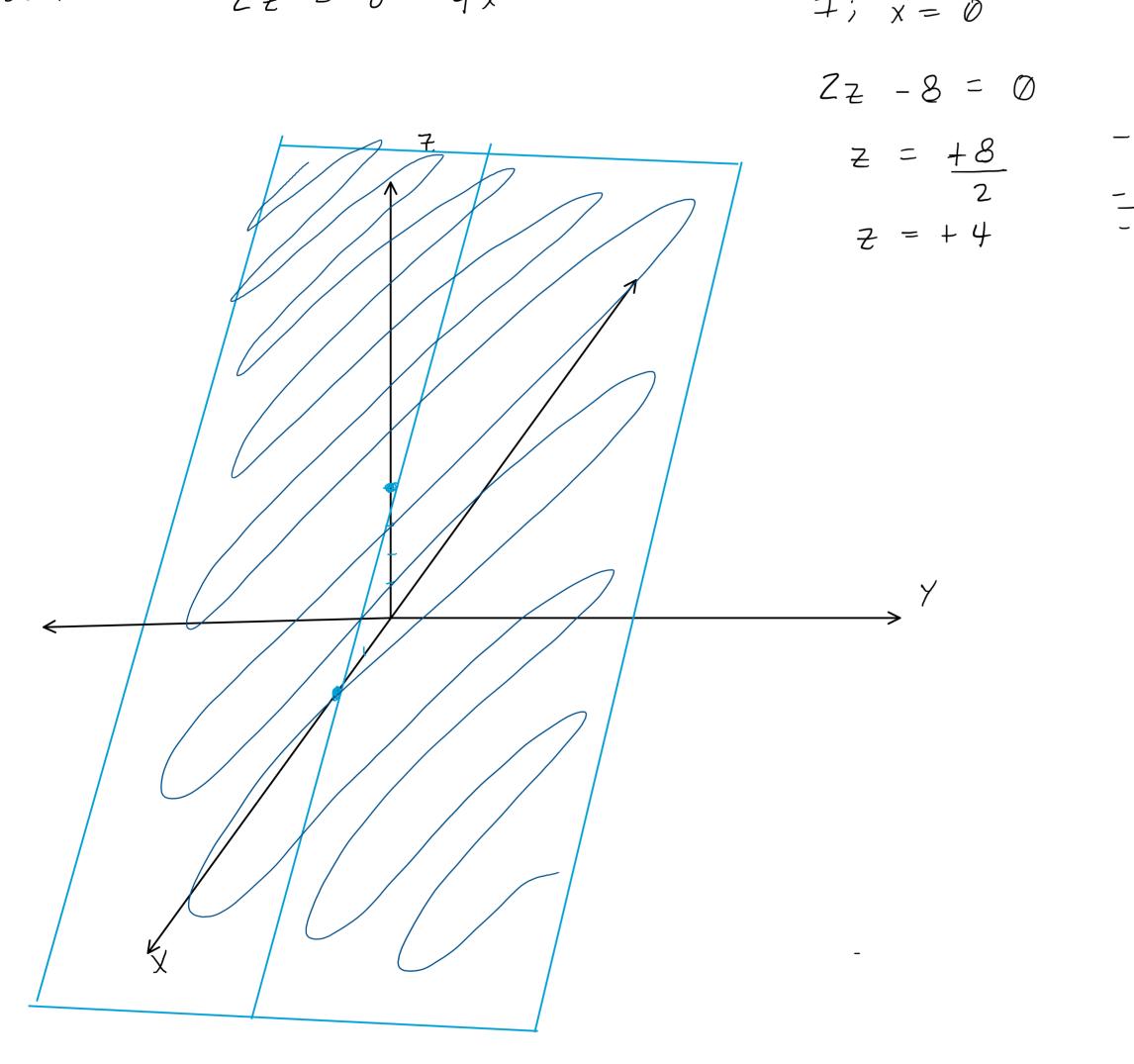
4) Longitud de los lados dul triángulo P(3,-2,-3), Q(7,0,1), R(1,2,1). É Isóceles, triángulo rectángulo?

$$\begin{aligned} \left| P_{A} \& P_{B} \right| &= \sqrt{\left( X_{2} - X_{1} \right)^{2} + \left( Y_{1} - Y_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ \left| P_{P} P_{0} \right| &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{2} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left( Z_{1} - Z_{1} \right)^{2} + \left( Z_{1} - Z_{1} \right)^{2}} \\ &= \sqrt{\left$$

5) Describa & posqueje la superficie en  $R^3$  representada por la ecuación x + y = 2

x = 2 - y; y = 2 - x

6) Describa y bosqueje la superficie  $\mathbb{R}^3$  representada por la ecuación Zz = 8 - 4x T; x = 0 t; z = 0 0 = 8 - 4x Zz - 8 = 0 0 = 8 - 4x



7) Bono: La ecuación de la esfera con centro (2,-3,6) que toca el plana xy.

