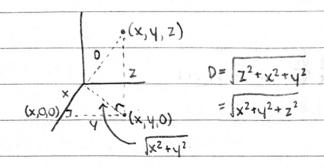
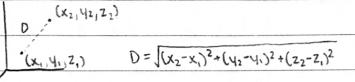


Z=2 plane above and parallel to the x-4 plane

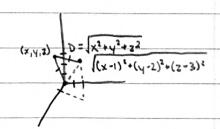




A sphere has a radius r=5 and is centered at the origin. Find an equation for the surface of the sphere.

x*+4,-2,=12	1		
,,	X	Y	2
	0	0	Ø
	5	0	0
$2=\pm\sqrt{25-x^2-y^2}$	10	10	±1175

Find an equation describing all points which are the same distance from (0,0,0) and (1,2,3) $x^2+y^2+z^2=(x-1)^2+(y-2)^2+(z-3)^2=x^2-2x+1+y^2-4y+4+z^2-6z+9$ $2x+4y+6z=14 \Rightarrow x+2y+6z=7$



Find the distance from (1,1,1) to the a. x-axis b. x-zplane $Q = \sqrt{(1-x)^2 + 1^2 + 1^2} = \sqrt{(1-x)^2 + 2}$ minimum distance when x=1, $D=\sqrt{2}$ b. \((1-x)^2+12+(1-z)^2 minimum distance when x=1, z=1, D=1