

Spheres & Inequalities Cont.

Friday, May 5, 2023

9:41 AM

ex 5) describe $\{x^2 + y^2 + z^2 < 1, z > 0\}$

• $x^2 + y^2 + z^2 < 1$

inside of sphere
(test by plugging in $(0,0,0)$)

• $z > 0$: upper half space

intersection = upper hemisphere of sphere

