The solid sphere itself is represented by $\sqrt{x^2 + y^2 + z^2} \le 7$. Since we want only the upper hemisphere, we restrict the z-coordinate to nonnegative values. Then inequalities describing the region are $\sqrt{x^2 + y^2 + z^2} \le 7$, $z \ge 0$, or $x^2 + y^2 + z^2 \le 49$, $z \ge 0$.