

Question

Which of these pictures is NOT the range of one of these three parametrizations?

I.

$$\begin{cases} x = (2 + \cos \phi) \cos \theta \\ y = (2 + \cos \phi) \sin \theta \\ z = \sin \phi \end{cases}$$

II.

$$\begin{cases} x = u \\ y = \sin u \cos \theta \\ z = \sin u \sin \theta \end{cases}$$

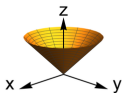
III.

$$\begin{cases} x = u \cos v \\ y = u \sin v \\ z = v \end{cases}$$

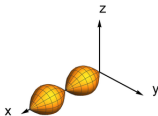
A.



B.



C.



D.

