

## SPHERICAL GRAPHS

Identify by letter the graph that corresponds to each of the following functions.

$$\rho = \cos 2\varphi$$

1.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

$$\rho = \varphi$$

2.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

$$\rho = \cos 4\varphi \cdot \cos 4\theta$$

3.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

$$\rho = \sin \varphi \cdot 1.3^\theta$$

4.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

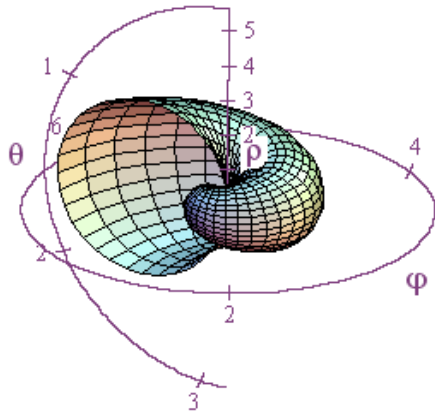
$$\rho = 3$$

5.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

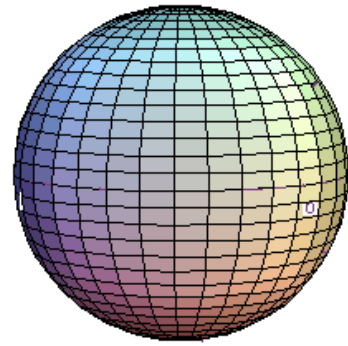
$$\rho = \cos 2\theta$$

6.  $0 \leq \theta \leq 2\pi$  \_\_\_\_\_  
 $0 \leq \varphi \leq \pi$

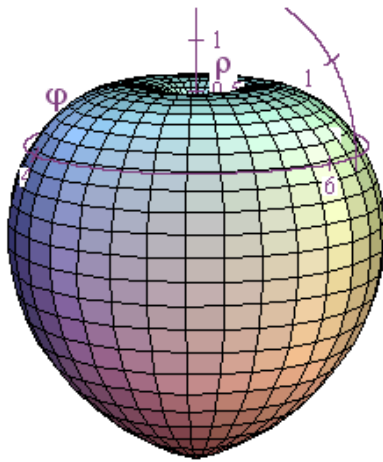
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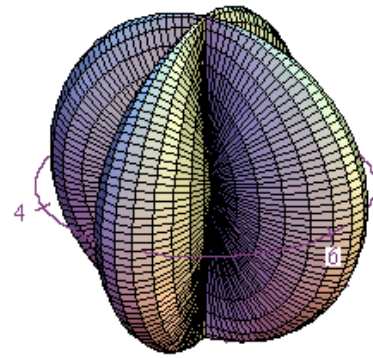
a.



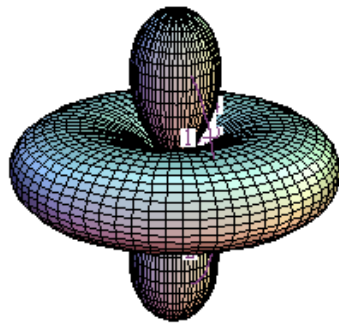
b.



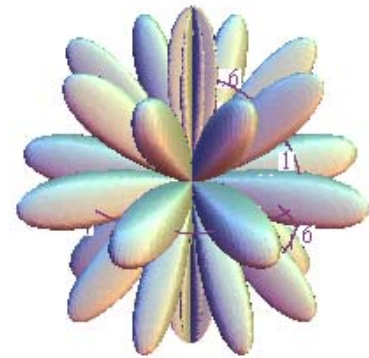
c.



d.



e.



f.