## Spherical Shell v/s Cylindrical Shell

If a spherical shell $\left(I=(2 / 3) m r^{2}\right)$ and a cylindrical shell $\left(I=m r^{2}\right)$ are released from rest at the same instant from the top of a ramp (inclined at a certain angle to the floor), which, would you predict, will reach the bottom first?
a.) The cylindrical shell.
b.) The spherical shell.
c.) Both will reach the bottom at exactly the same time.
d.) Depends on which object has the greater mass.
e.) Depends on which object has the greater radius.

