A right circular conical water tank 10 feet high with a radius of 6 feet is buried with the narrow end down (orientation \#1) so that the top of the tank is at ground level. The tank is full of water.


Orientation \#1


Orientation \#2

A certain amount of work is required to pump the water out of the water tank having orientation \#1 (up to ground level). If the tank were instead buried with the narrow end up (orientation \#2), how much relative work would be done in pumping the full tank of water up to ground level?

In particular, when compared to the work required for orientation \#1, the work required to empty the water tank having orientation \#2 would be:

CIRCLE ONE:
A. MORE
B. LESS
C. SAME AMOUNT

Note: Please make a mathematical conjecture concerning the above question and do not perform any computations.

