

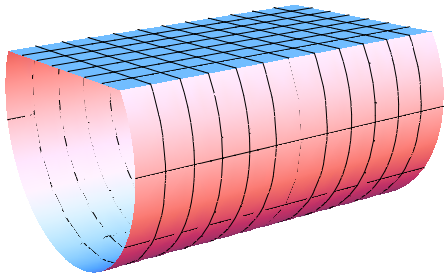
Wednesday, January 23

# Clicker Questions

## Clicker Question 1

### Cross section of a tank

A water tank is in the shape of a cylinder lying on its side. Its length is 11 ft and its radius is 3 ft. If the cylinder is cut by a horizontal plane  $x$  ft above its center and then covered by a flat roof, what is the area of the roof?



- A.  $22\sqrt{9 - x^2}$  ft<sup>2</sup>
- B.  $22 \cos(x/3)$  ft<sup>2</sup>
- C.  $22 \sin(x/3)$  ft<sup>2</sup>
- D.  $22x$  ft<sup>2</sup>
- E. none of the above