

# Classroom Voting Questions: Calculus II

## Section 8.1 Areas and Volumes

1. If we slice a cone with a circular base parallel to the  $x$ -axis, the resulting slices would look like
  - (a) Circles
  - (b) Triangles
  - (c) Cylinders with a circular base
  - (d) Cylinders with a triangular base
  - (e) Cones
  
2. If we slice a cone with a circular base parallel to the  $x$ -axis, then the thickness of the slices is given by
  - (a)  $\Delta x$
  - (b)  $\Delta y$
  - (c)  $x$
  - (d)  $y$
  
3. If we put the tip of a cone with a circular base at the origin and let it open upward, and then slice the cone parallel to the  $x$ -axis, then the cross-sectional area of the slices
  - (a) Is constant
  - (b) Increases as  $y$  increases
  - (c) Decreases as  $y$  increases