

# Classroom Voting Questions: Calculus II

## 7.3 Trigonometric Substitution

1. What trigonometric substitution should be made to evaluate  $\int \frac{dx}{(16 - x^2)^{3/2}}$ ?
  - (a)  $u = 16 - x^2$
  - (b)  $x = 16 \sin \theta$
  - (c)  $x = 4 \sin \theta$
  - (d) This integral cannot be evaluated using trigonometric substitution.