

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.