

❖ **Formula Sheet Allowed. 4-FUNCTION CALCULATOR ONLY. [REMEMBER: IT WILL BE “NO CALCULATOR OR FORMULA SHEET” IN CALCULUS.]**

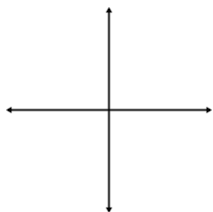
You must show the use of the correct formula to receive credit for the problem. Simplify fractions and reduce radicals as we have done in class. [Roots within roots are acceptable answers.]

Answers having no supporting arithmetic work will not be scored.

1. Use the information about the angle, θ , to find the exact value. [5 pts]

$$\cos \theta = \frac{-3}{5}, \quad \frac{\pi}{2} < \theta < \pi$$

$$\sin (2\theta) = \underline{\hspace{2cm}}$$



Work:

2. Use a half-angle formula to find the exact value of $\sec 15^\circ$. [10 pts]

Work:

$$\sec 15^\circ = \underline{\hspace{2cm}}$$

