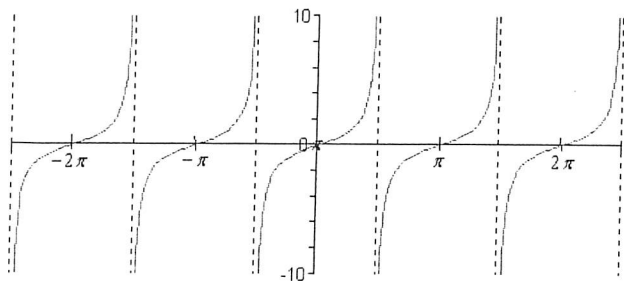
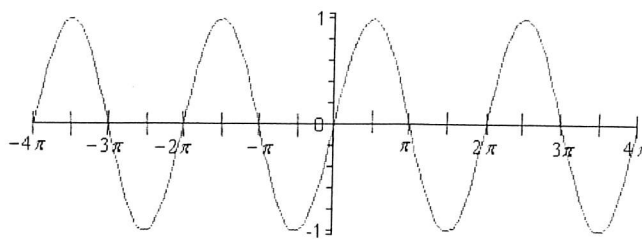


Free Response Practice #49
Calculator NOT Permitted



$f(\theta)$



$g(\theta)$

Given above are the graphs of two trigonometric functions. Use the graphs to answer the following questions.

- a. Identify which trigonometric function is represented by the graph of $f(\theta)$. Explain how you know.

- b. Identify which trigonometric function is represented by the graph of $g(\theta)$. Explain how you know.

- c. Identify the domain and range of the graph of the function defined by $y = -3g(\theta)$. Justify your reasoning.

- d. Is the equation $\cot \theta = -f\left(\theta - \frac{\pi}{2}\right)$ true? Explain your reasoning.