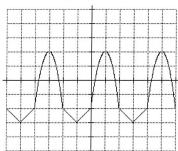
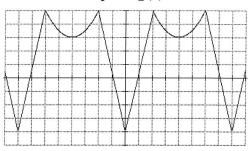
Day #81 Homework

Given below are sections of two periodic functions, f(x) and g(x). Use the graphs to answer the questions that follow.

Graph of f(x)



Graph of g(x)



Find each of the following function values using the graphs of the periodic functions pictured above. Show your work.

1.
$$f(21) =$$

2.
$$f(30) =$$

3.
$$f(-25) =$$

7. Explain how you used the period of g(x) to find the function values in problems 1-6.

8. Create a table of values representing 5 points that can consecutively be connected by line segments to create one cycle of a periodic function whose period is 7. Explain why your table of values can represent a periodic function.

9. Create a table of values representing 5 points that cannot consecutively be connected by line segments to create one cycle of a periodic function. Explain why your table of values cannot represent a periodic function.

10. Using your table of values from question 8, state the domain, range, and amplitude of the function.

11. Sketch a graph of 2 complete cycles of your function from question 8.

