Name: _____

Precalculus Unit 2 Quiz #1 Practice Problems

1. Write the equation for each function graphed in the space below the graph.







d)

e)









- 2. A sinusoidal graph (only "involving" *a* and *d*) has a maximum y-value of 43 and a minimum y-value of -19.
 - a) Show how you can find the axis of oscillation without graphing.
 - b) Show how you can find the amplitude without graphing.
 - c) How many sinusoidal functions (only "involving" *a* and *d*) will fit the given information? Write their equations.

d) If you are also given that the point (0,12) is on the graph, now how many functions are there? Write their equations.

- 3. For each function:
 - i) Plot the key points
 - ii) Then connect them with a sinusoidal function
- a) $y = -2\cos x + 1$
- b) $y = -2\sin x 3$
- c) $y = \cos x + 4$