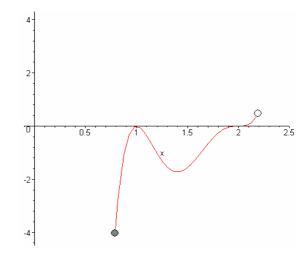
Name:

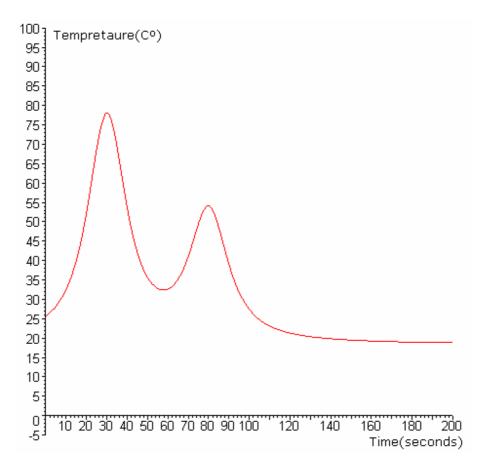
QUIZ - MATH GRADE 10

- 1. (40%) Given the Function:
 - a. (5%) State its domain: _____
 - b. (5%) State its Range:
 - c. (4%) f(x) = 0, x = _____

 - e. (2%) f(0.9) = _____
 - f. $(3\%) f(-0.5) = ___ = f(__) = f(__)$
 - g. (3%) f(x) = -2, x = _____
 - h. (2%) f(2.1) < 0 True/False
 - i. (2%) f(0.8) < f(0.9) True/False
 - j. (3%) Where is the function increasing?
 - k. (3%) Where is the function decreasing?
 - 1. (3%) Where is the function stationary?
 - m. (3%) Is this function one to one? Many to one? Explain.



2. (40%) Given the Function describing the temperature of a cup of coffee that was heated in a microwave. Fill the blanks.



- a. (5%) State the observed domain:
- b. (5%) State the observed Range:
- c. (2%) How many times was the coffee heated? _____
- d. (5%) What was the initial temperature of the coffee?
- e. (3%) Temp(t) = 30° , t = _____
- f. (5%) When does this function decrease?
- g. (5%) What is the maximum temperature of the coffee? _____ when was it reached? _____
- h. (5%) During the first 100 seconds, when was the function stationary? _____
- i. (5%) Write down the room temperature _____

| 3. (20%) Write down a relation that is a <u>decreasing function</u> in the following form, make sure to choose a relation you may represent using in a grpah: | | | | | |
|---|---------------|------------------|---|-----------------------------|--|
| Varible: uni | ts (| _) → | Varible: | units (|) |
| Graph the relation on the | e following g | raph: | | | |
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| | | | | | |
| | Varible: uni | Varible: units (| sure to choose a relation you may represent using | varible: units () 	Varible: | sure to choose a relation you may represent using in a grpah: Varible: units () Varible: units () |