Math 10-C Rel & Func Quick Check **/ 10** **Name:** KEY

C5 – Functions

1. Determine whether each relation is a function (F) or is not a function (NF). For each question circle **F** if it is a function or **NF** if it is not a function. (MHR BLM 6.4)

a) (4, 1), (5, -2), (6, -5), (7, -8), (6, -11), (5, -14), (4, -17) **F or NF**

b)

x	Y
–2	–2
–1	4
0	–8
1	16
2	–32

F or NF

c)

F or NF

d)

F or NF

2. The volume of water in a watering can, V, in litres in relation to time, t, in seconds is shown by the graph below. Use the graph to fill in the blanks.

Volume of Water in a Watering Can

Pearson pg. 279

a) V(0) = 1.0 L

b) V(30) = 1.75 L

c) V(t) = 0, t = 90s

d) V(t) = 1.25, t = 10s, 75s

3. The function $C(n) = 25n$ describes the number of calories, C, in n crackers. Solve the following and explain what the solution means in the context of the problem.

a) $C(12) =$ 25(12)

= 300 calories

12 crackers have 300 calories.

b) Determine n when $C(n) = 475$

475 = 25n

n = 19 crackers

19 crackers have 475 calories.