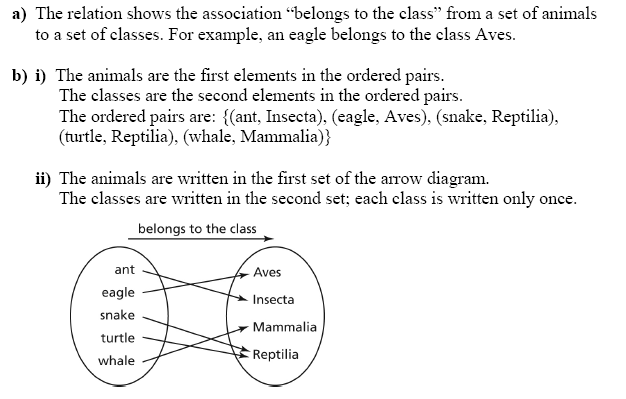
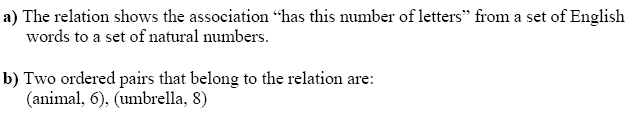
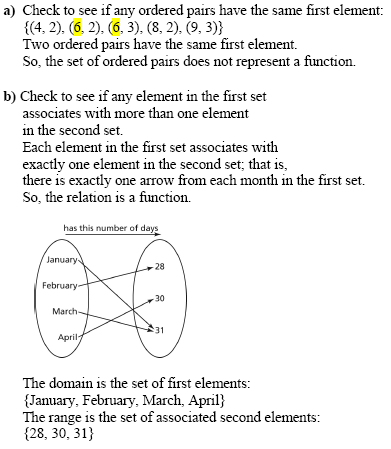
**1.**

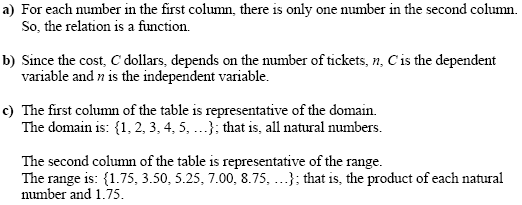
****

**2.**



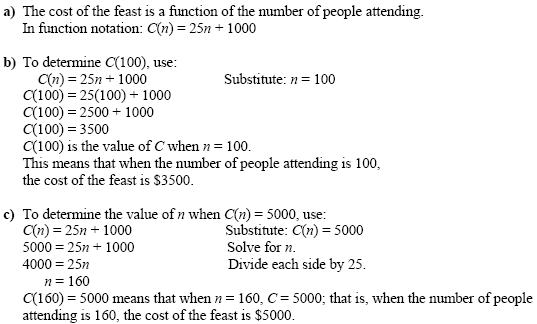
**3.**





4)

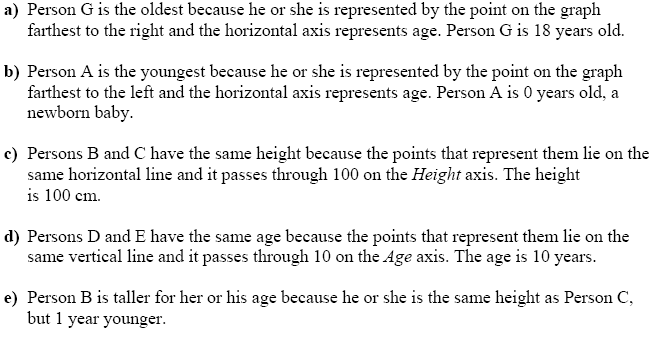
5)



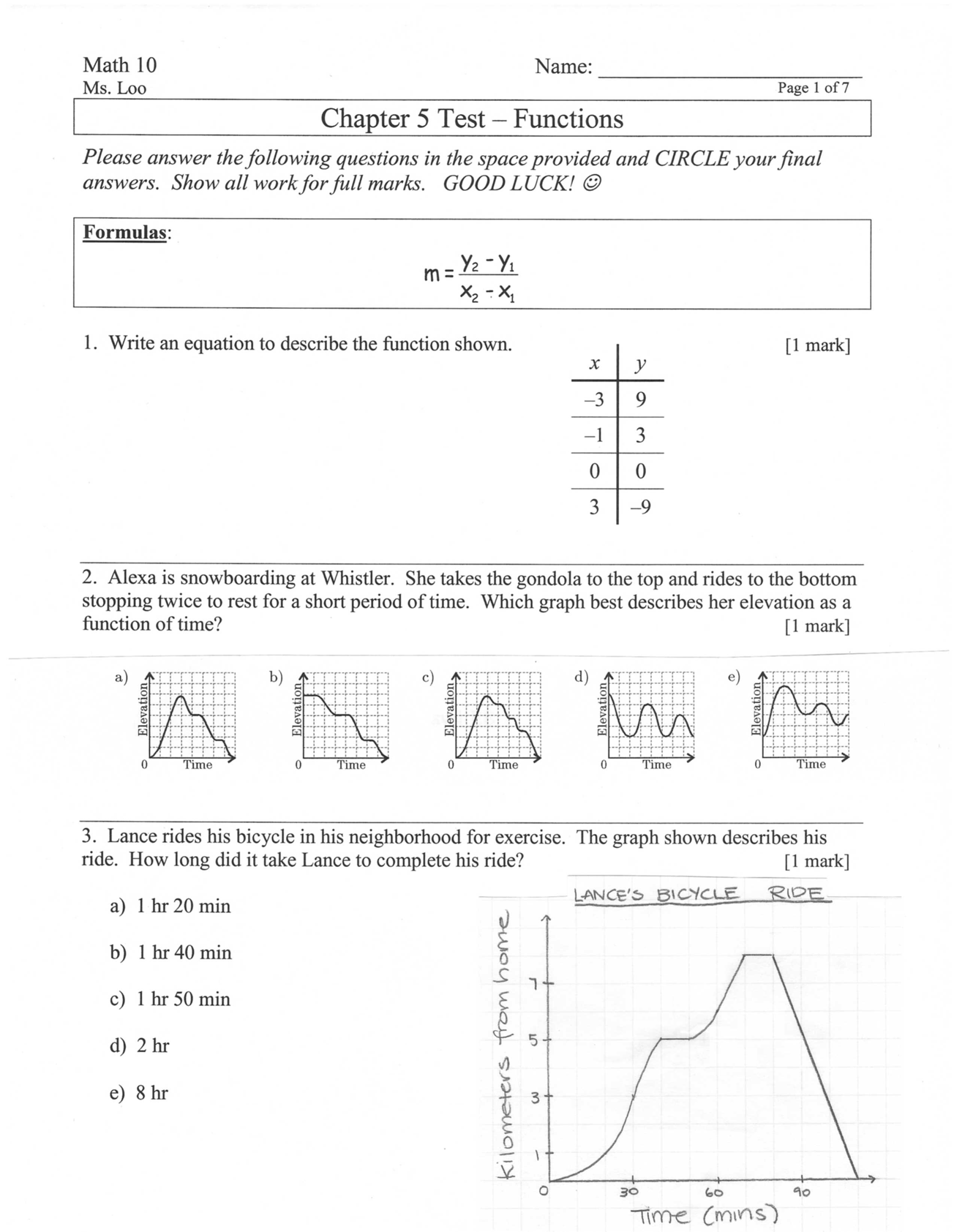
**6.** a) 24 – 4 +1 =21 b) 54 – (-6) +1=61 c) 

7) -2

**8.**



**9.** Lance rides his bicycle in his neighbourhood for exercise. The graph below shows his ride from his home to the shore of the Fraser River and back.

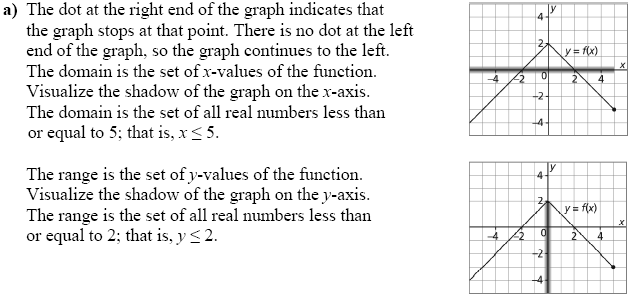


1. Approximately how long did Lance ride around his neighbourhood? **110 minutes**
2. How many kilometers away from Lance’s home is the Fraser River? **8 km**
3. On the way to the river, Lance stopped to talk to a friend. How far away from home was he at that moment? **5 km**
4. How much time did he spend along the shore of the Fraser River? **10 mins**

10. **a)** Yes, any vertical line drawn on the graph passes through 0 or 1 point. **b)** No, because the vertical line test does not pass at 175 cm.

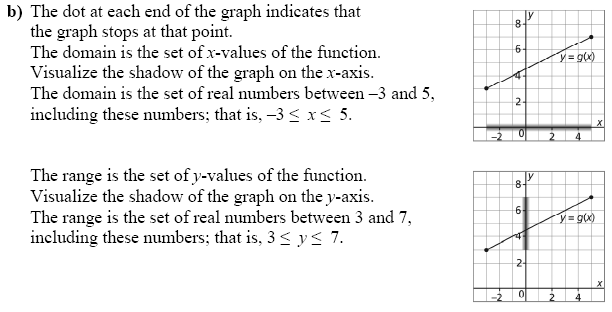
**11. a)Domain**

**Range:**

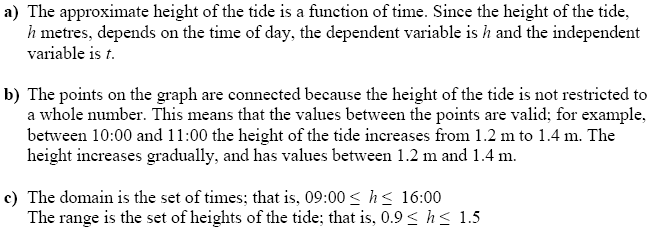


b) **Domain**

**Range:**

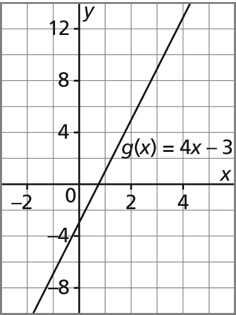
****

**12.**



**13)**

**14**. Here is a graph of the function *g*(*x*) = 4*x* – 3.



**a)** Determine the range value when the domain value is 3.

**9**

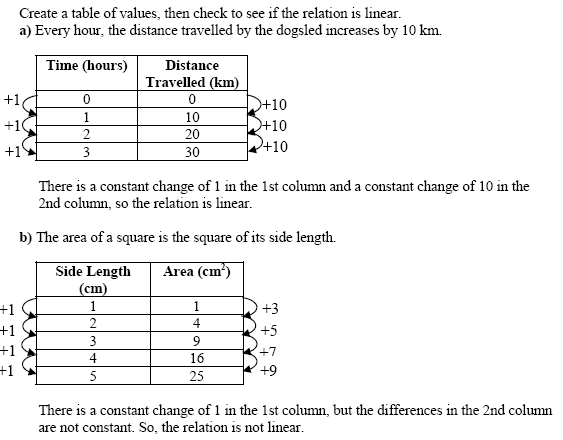
**b)** Determine the domain value when the range value is –7. **-1**

**14.** Express “y” as a function of ‘”x”. Include the domain and range of the two variables.

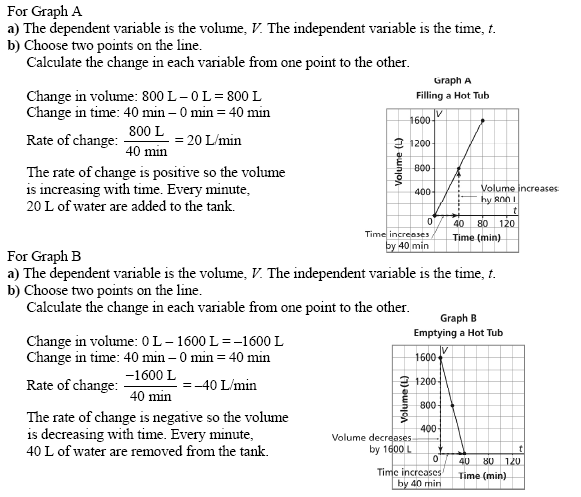
x

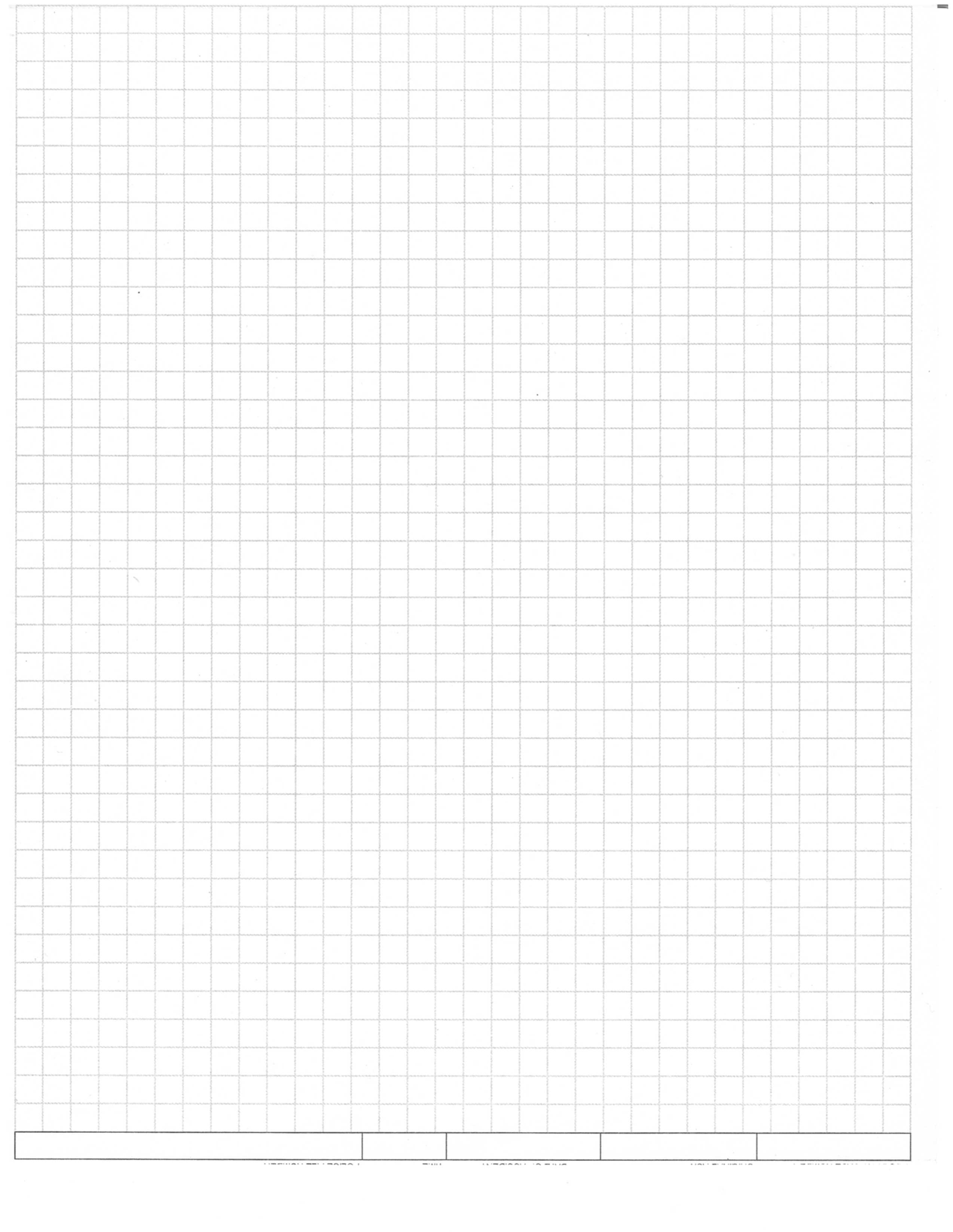
y

**15.**



**16.**

****

1. To use a mini race car at the fun park, the cost is $12 for a tank of gas plus a rental fee for every hour of driving. It cost $22 to race the car for one hour. Assume that you are billed per minute of driving and you are only allowed to rent the car for a maximum of 4 hours.
2. Graph this relationship. Be sure to label  
   both axis and pick and appropriate scale.

60

50

1. What is the hourly rental rate?

$10/hour

40

1. How much does it cost to rent the   
   car for 2 hours and 15 minutes?

30

Cost in ($)

15 minutes = 0.25 hours

20

2.25 x 10 + 12 = $34.50

10

1. What is the domain of the graph?

Domain is the amount of time that you

4

can rent the car for.

3

1

2

1. What is the range of this graph?

Time in hours

Range is the cost of driving the car