

ALBERTA DISTANCE LEARNING CENTRE
Mathematics 10C
MAT1791
Workbook 6.2

**Student's Questions
and Comments**

FOR STUDENT USE ONLY

Student Name:

FOR ADLC USE ONLY

Assigned to

Marked by

Date received

Summary

	Marks Earned	Total Possible Marks	Percent
6.2 Practice – II	I have ____ /8 and ____ %.		
Lesson 6.2 Assignment		20	

Teacher's Comments:

Teacher's Signature

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Practice Assessment

The *Practice* section provides exercise questions and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. You will mark your *Practice* work in each *Workbook* according to the following rubric.

Category	Strategy and Procedures	Response to Questions
	<i>I have...</i>	<i>I have...</i>
4	<ul style="list-style-type: none"> used efficient and effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided detailed explanations and followed directions appropriately to complete all questions
3	<ul style="list-style-type: none"> used effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided clear explanations and followed directions adequately to complete most questions
2	<ul style="list-style-type: none"> used effective strategies inconsistently to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and followed some directions to complete a few questions
1	<ul style="list-style-type: none"> used ineffective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and have not followed directions to complete some questions

Complete *Practice* exercises using your best work, showing all relevant steps needed to arrive at your solution. Refer to the *Module* to review lesson instructions. Contact your teacher for assistance or clarification as needed, or to investigate the topic further.

Check and correct your work using the solutions provided in *Appendix* in the *Module*.

Practice is worth 8 marks.

After you have assessed your work, reflect on your understanding of the concepts in the table provided at the end of each *Practice* section.

Lesson 6.2: Domain and Range

Complete the *Practice* below. When you have completed all the questions for *Lesson 6.2 Practice – II* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



Practice – II

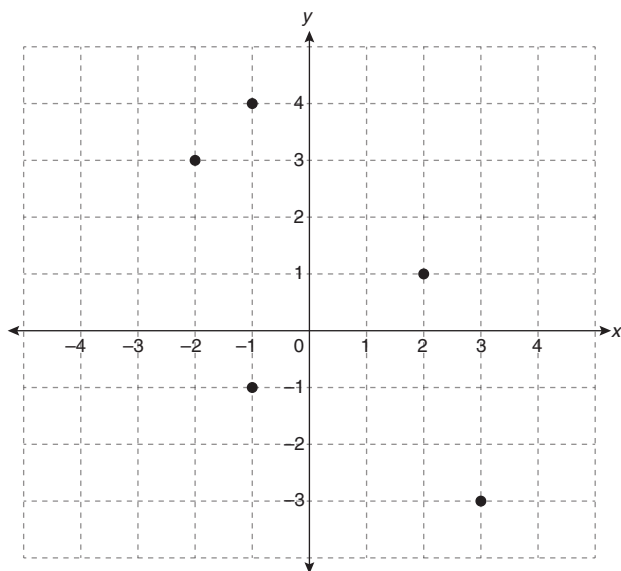
1. Determine the domain and range of the following relations as sets in list form.

a. $\{(3,6), (6,7), (10,11), (13,17), (14,20)\}$

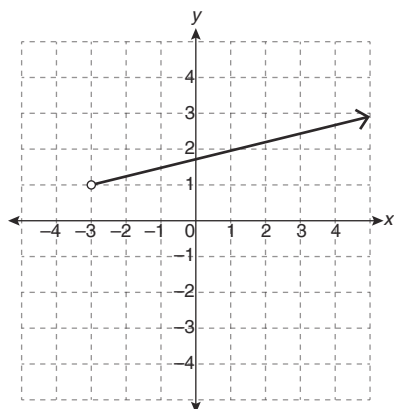
b.

x	y
-2	-3
-5	5
-8	11

c.

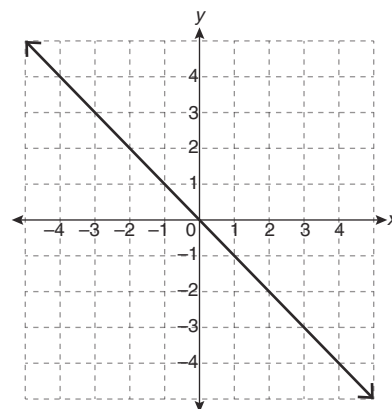


2. State the domain and range of the following relations using set builder notation and interval notation.



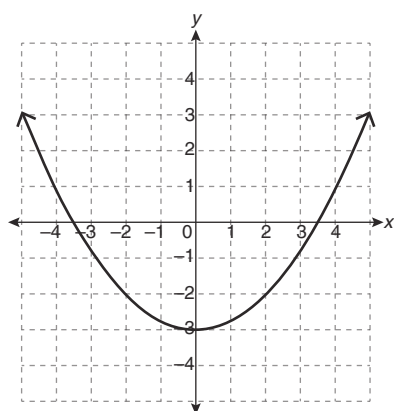
D:
R:

D:
R:



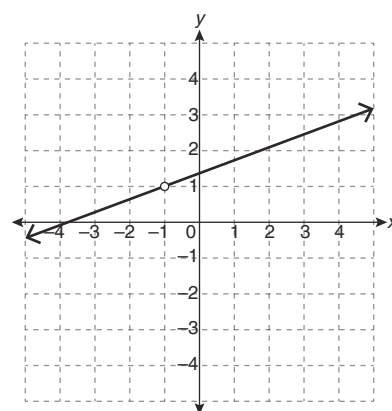
D:
R:

D:
R:



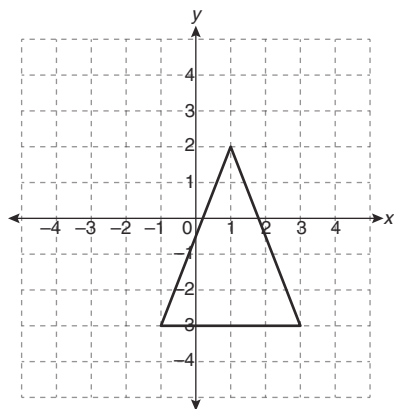
D:
R:

D:
R:



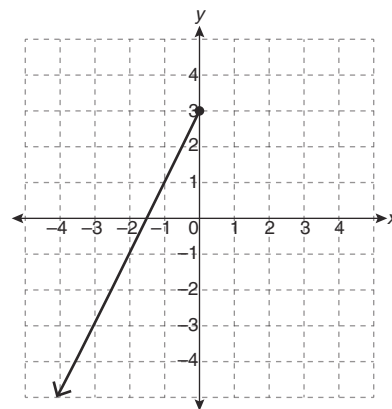
D:
R:

D:
R:



D:
R:

D:
R:



D:
R:

D:
R:

3. Pop cans can be returned to the bottle depot in exchange for a refunded deposit. Complete the following table.

Number of Pop Cans, n	Refund, r (\$)
1	0.10
2	0.20
5	
10	
12	
15	
43	

- a. State the independent and dependent variables for the relation.

- b. Explain the relationship between the variables.

- c. Explain why there cannot be negative values for this type of relation.

- d. Is the data represented in this situation discrete or continuous? Explain.

- e. Extrapolate how much money would be refunded when 367 pop cans returned.

- f. Determine the domain and range specific to the table of values above.

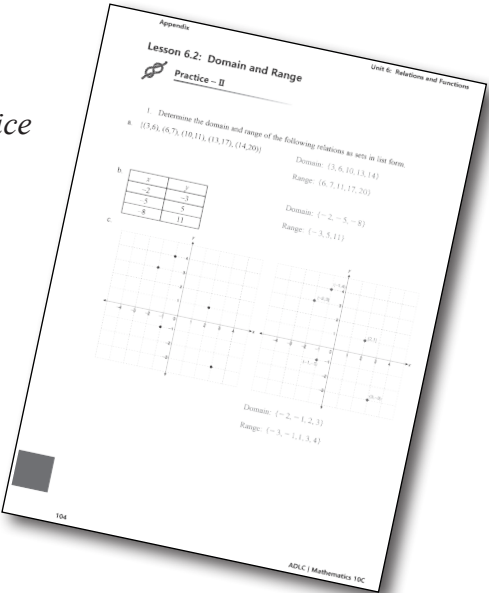
Mark your work for *Lesson 6.2 Practice – II* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 6.2 Practice – II* is _____.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			
3			

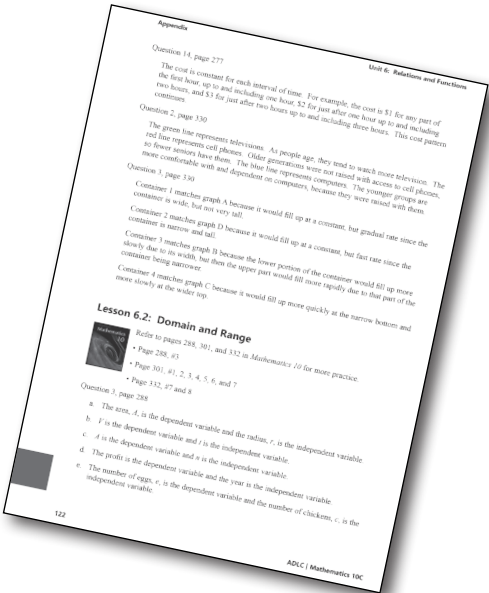


You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

Note: Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

- Page 288, #3
- Page 301, #1, 2, 3, 4, 5, 6, and 7
- Page 332, #7 and 8

Check your work in *Enhance Your Understanding*.



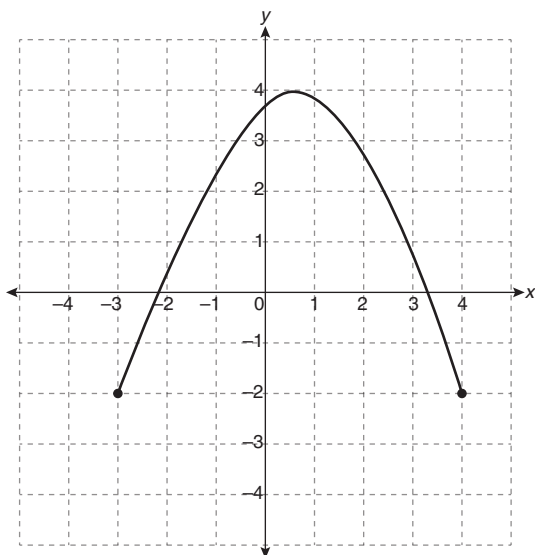
Lesson 6.2: Domain and Range



Explore Your Understanding Assignment

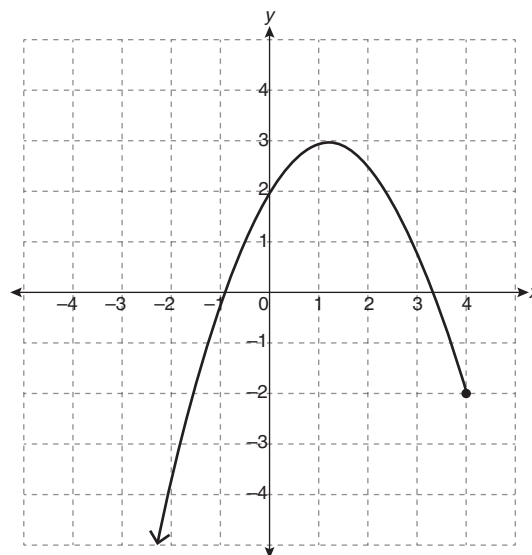
- 8 1. Determine the domain and range of the following relations using set builder notation.

a.



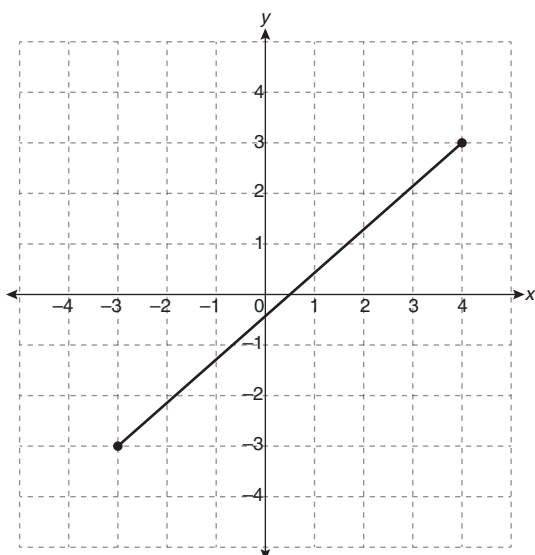
D:
R:

b.



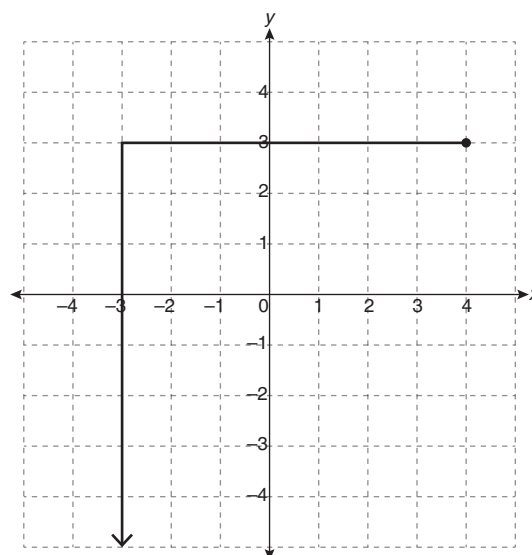
D:
R:

c.



D:
R:

d.



D:
R:

2. Match the interval notation below to the relations represented in *Question 1*.

①

a. Domain: $[-3, 4]$ and Range: $(-\infty, 3]$

Relation: _____

①

b. Domain: $(-\infty, 4]$ and Range: $(-\infty, 3]$

Relation: _____

3. Identify the independent and dependent variables in the following scenarios. Explain each choice.

③

a. The number of bacteria in relation to time.

Independent variable – _____

Dependent variable – _____

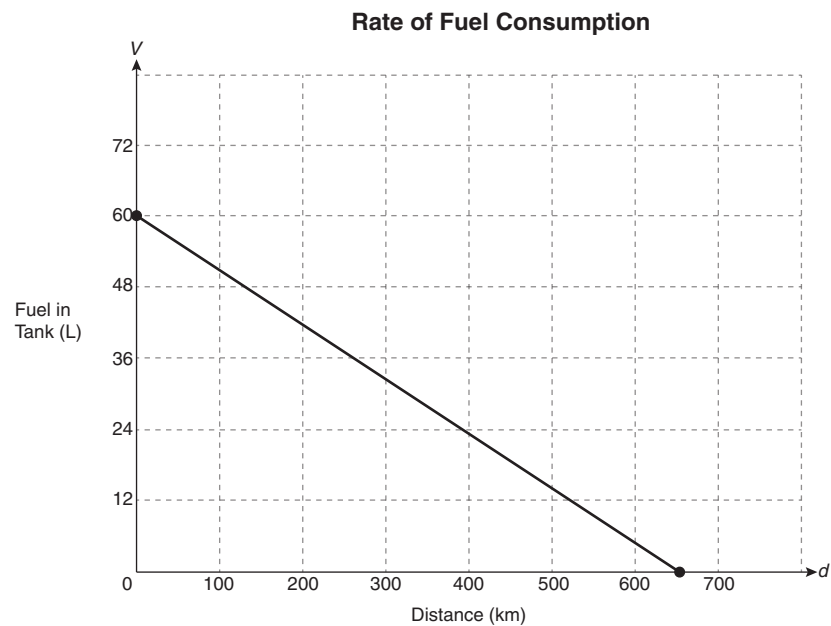
③

b. The total cost of tickets for a concert in relation to the number of tickets purchased.

Independent variable – _____

Dependent variable – _____

4. The graph shows the volume, V , of gasoline left in a car's tank after a distance travelled, d , in hundreds of kilometres.



- 2 a. Determine the domain and range of the relation using set builder notation or interval notation.

- 2 b. Is the data represented by the relation continuous or discrete? Explain.

/20