

**ALBERTA DISTANCE LEARNING CENTRE**  
**Mathematics 10C**  
**MAT1791**  
**Workbook 6.4**

**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
6.4 Practice – IV	<b>I have ____ /8 and ____ %.</b>		
Lesson 6.4 Assignment		19	

**Teacher's Comments:**

\_\_\_\_\_  
**Teacher's Signature**

## CANADIAN CATALOGUING IN PUBLICATION DATA

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Mathematics 10C  
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Workbook 6.4

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*Mathematics 10*  
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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"> <li>used efficient and effective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided detailed explanations and followed directions appropriately to complete all questions</li> </ul>
3	<ul style="list-style-type: none"> <li>used effective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided clear explanations and followed directions adequately to complete most questions</li> </ul>
2	<ul style="list-style-type: none"> <li>used effective strategies inconsistently to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided incomplete explanations and followed some directions to complete a few questions</li> </ul>
1	<ul style="list-style-type: none"> <li>used ineffective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided incomplete explanations and have not followed directions to complete some questions</li> </ul>

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 6.4: Linear Functions

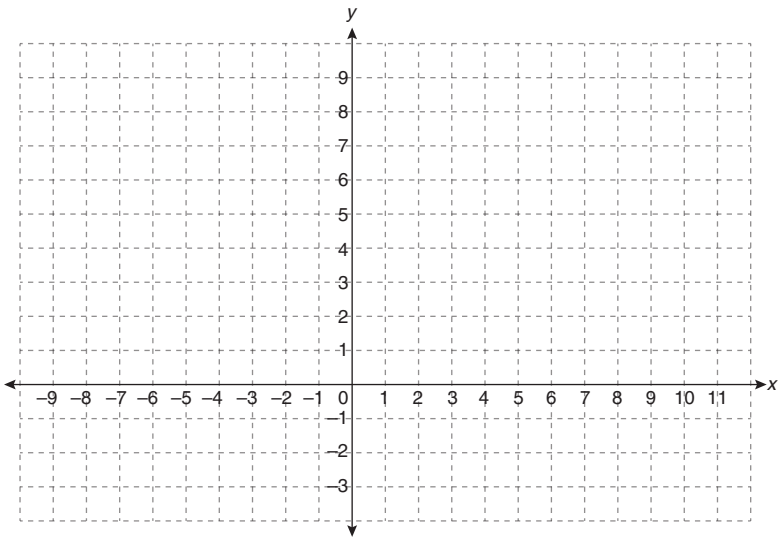
Complete the *Practice* below. When you have completed all the questions for *Lesson 6.4 Practice – IV* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



Practice – IV

1. Sketch the graph of  $y = -\frac{1}{2}x + 3$ .

$x$	$y$



2. Which set of ordered pairs does **not** represent a function? Explain.
- a.  $\{(3, 6), (4, 9), (5, 12), (3, 0)\}$
  - b.  $\{(5, -6), (6, 8), (8, 10), (9, -10)\}$
  - c.  $\{(-3, -5), (-4, -8), (-5, -9), (-6, 0)\}$
  - d.  $\{(7, 0), (4, -1), (-6, 1), (-3, 0)\}$

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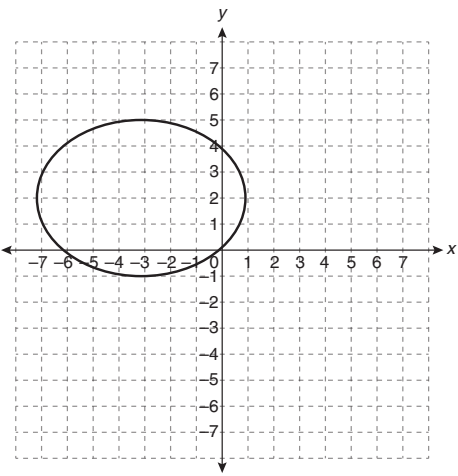
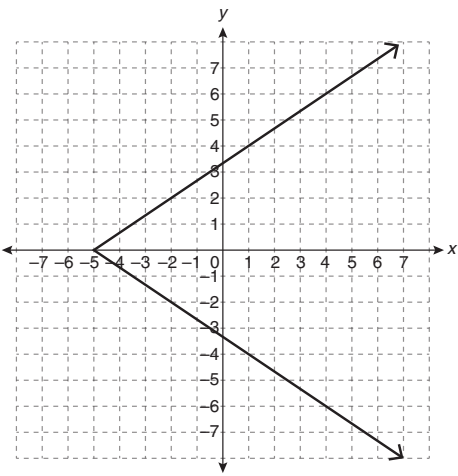
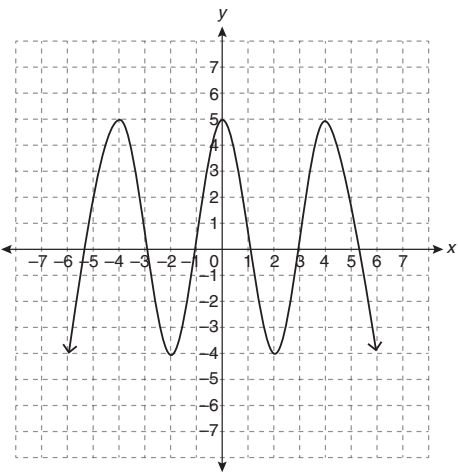
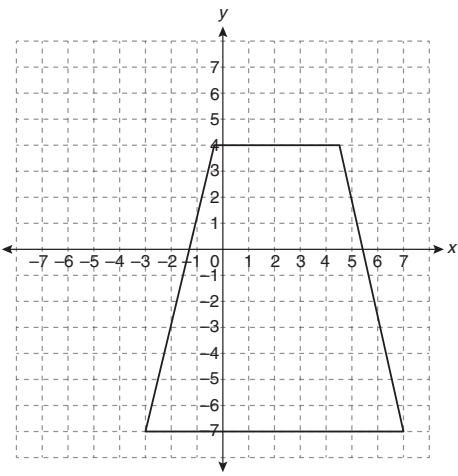
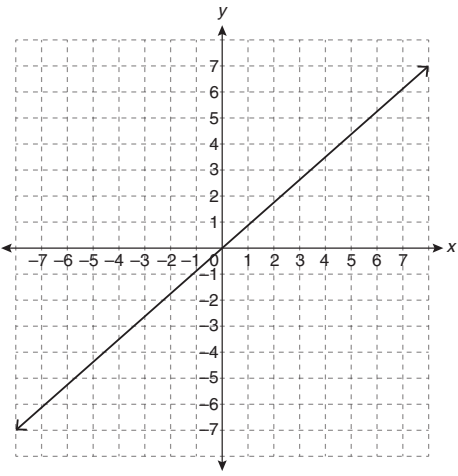
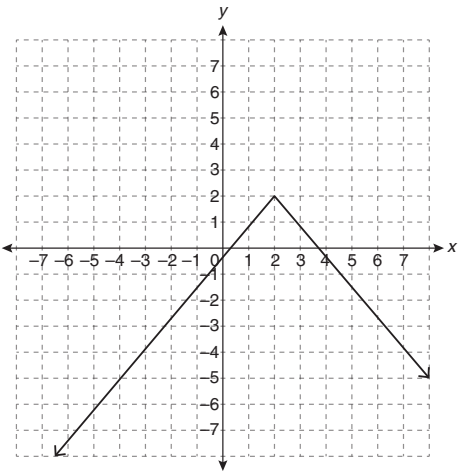
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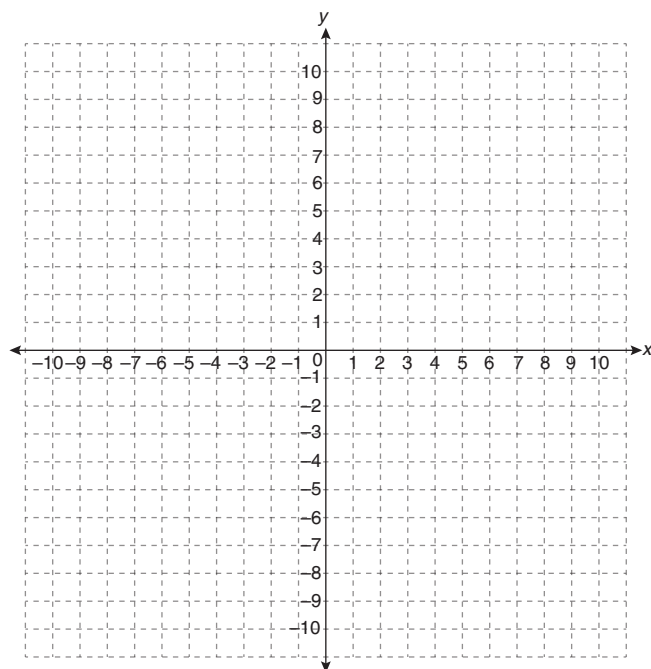
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3. Circle YES if the graph of the relation represents a function or NO if it does not represent a function.

 <p>YES NO</p>	 <p>YES NO</p>
 <p>YES NO</p>	 <p>YES NO</p>
 <p>YES NO</p>	 <p>YES NO</p>

4. Given  $g(x) = 5x - 10$ ,
- a. make a table of values for the domain  $\{-1, 0, 1, 2, 3\}$ .

- b. graph the function  $g(x) = 5x - 10$ .



Mark your work for *Lesson 6.4 Practice – IV* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

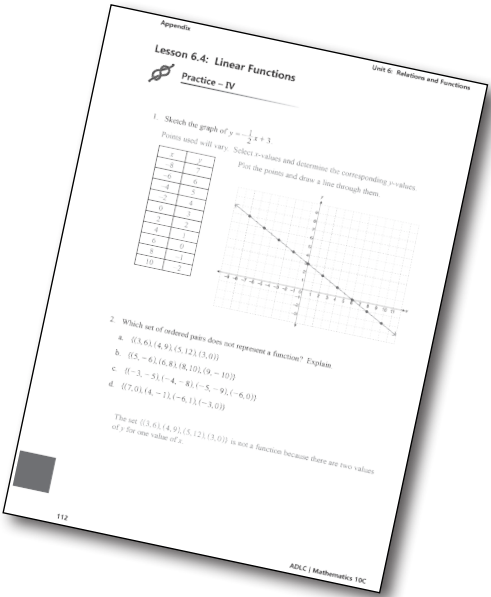
Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 6.4 Practice – IV* 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			
4			

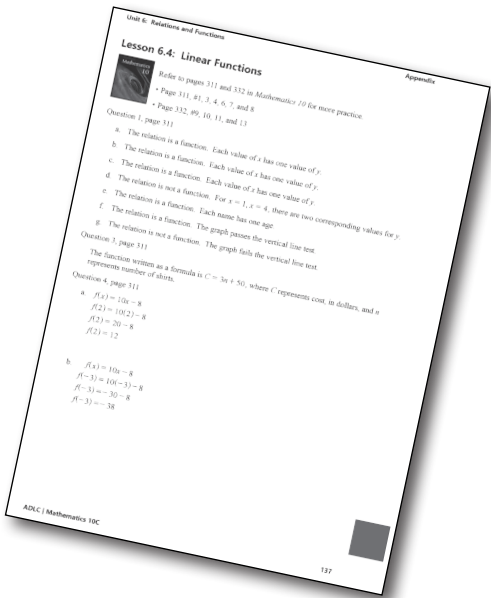
You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.



**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 311, #1, 3, 4, 6, 7, and 8
- Page 332, #9, 10, 11, and 13

Check your work in *Enhance Your Understanding*.



Lesson 6.4: Linear Functions



Explore Your Understanding Assignment

- 4 1. Determine whether the relations below represent functions. Explain how you know.

Relation	How you know:
$\{(-2, 3), (-5, 10), (-7, 16), (-9, 22)\}$	



2. If  $f(x) = 4x - 11$ , determine

② a.  $f\left(\frac{1}{4}\right)$

② b.  $f(-3)$

② c.  $x$  if  $f(x) = 53$

3. A list of numbers is given.

$-9, 1, 0, -7, 5, 1$

Using any combination of the numbers,

①

- a. generate a set of ordered pairs that represents a function.

$\{(\underline{\hspace{1cm}}, \underline{\hspace{1cm}}), (\underline{\hspace{1cm}}, \underline{\hspace{1cm}}), (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})\}$

①

- b. generate a set of ordered pairs that does not represent a function.

$\{(\underline{\hspace{1cm}}, \underline{\hspace{1cm}}), (\underline{\hspace{1cm}}, \underline{\hspace{1cm}}), (\underline{\hspace{1cm}}, \underline{\hspace{1cm}})\}$

4. The equation  $C = 10n + 45$  represents the total cost,  $C$  dollars, for a sports banquet, when  $n$  people attend.

②

- a. Describe the function in words and then express the function using function notation.

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③

- b. Determine  $C(250)$  and explain what the result represents.

②

- c. If the total cost of the banquet is  $C(n) = 4\,295$ , find  $n$ , the number of people attending the banquet.