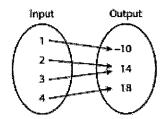
## Lesson 6 and 7 Review

1 Determine if each relationship represents a function.

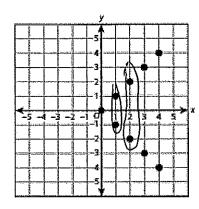
Choose Yes or No for each relationship.

**3**.



∏res □ No

Ъ.

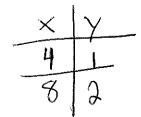


Yes No

		<u> </u>				y the same		
Č.	x (input)	7	5	б	7	8		
	y (output)	5	2	4	8	б		

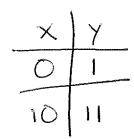
☐ Yes ☑ No

**d.**  $y = \frac{1}{4}x$ 



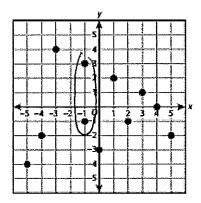
Yes No

**e.** x = y - 1



✓Yes □No

2 Audrey needs to remove one point from the graph shown so it represents a function.



Which point can Audrey remove?

Choose all that apply.

- A (5, -2)
- B (-1, 3)
  - **C** (2, -1)

3 Write a number from the box to complete the table of values to represent a function.

-3	-2	-1	(	) 1	2	3		,	
				U		order		not m	
Input		1	<b>-2</b>	-3	0	-	3	J)	
Output		-2	-3	-1	3	0	2	1	

 $\blacksquare$  Does the equation y = x represent a function? Explain why or why not.

ves,	exactly one	autout	For each	input
7	/			•
				100000000000000000000000000000000000000

Two functions are shown below.

5.

Function						
X	0	3	5			
У	3	9	13			
		7(				

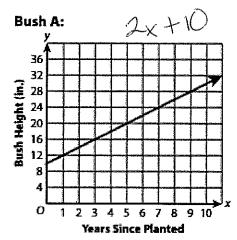
$$y = 3x + 2$$

Which statement correctly describes the rates of change of the two functions?

- A The rate of change is 2 for both Function A and Function B.
- B The rate of change is 3 for both Function A and Function B.
- The rate of change is greater for Function A than for Function B.
- (D) The rate of change is greater for Function B than for Function A.

6.

Cecelia planted two bushes at the same time and measured their heights over several years. She represented each bush's growth as shown.



Bush B:

Had a height of 7.5 in. when planted; Grew at a constant rate of 2.5 in. per year

Which of the following statements are true?

Choose all that apply.

- A Bush A has a greater rate of change than Bush B.
- B) Bush B has an initial value less than the initial value of Bush A.
- C After 7 years, Bush B was 1 inch taller than Bush A.
- **D** Bush B grows at a slower rate than Bush A.
  - Bush A and Bush B were the same height when planted.

7.

The saving rates for two students are shown.

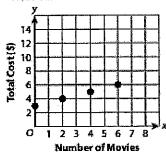
lec's Savings Account
savings account with an initial and adds \$4 per week.

Fill in the blanks to correctly compare the two students' accounts.

8.

Two movie clubs charge an initial membership fee plus a constant rate for each movie that is rented. The table and graph show what the two movie clubs charge.

Club A:



Club B:

Number of Movies	Total Cost (\$)
0	2.25
**************************************	3.00
2	3.75
3	4.50

## Part A

Complete an equation to represent each relationship. Let y represent the total cost for renting x movies.

Answers:

Club A:

 $y = \frac{1}{2}x + 3$  Club B:  $y = \frac{3}{2}x + 2.25$ 

## Part B

Which club has the greater initial value? Which club has the greater rate of change? Describe what this means in the context of the problem.