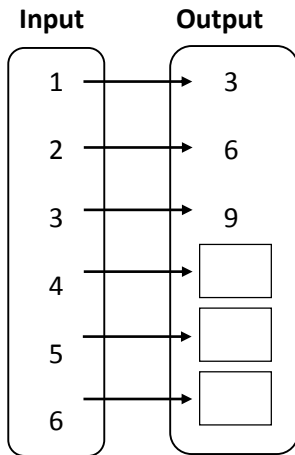


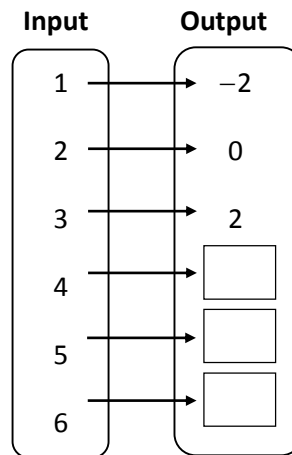
6.1-6.3 – Review

Describe the pattern in the mapping diagram AND complete the diagram.

1)

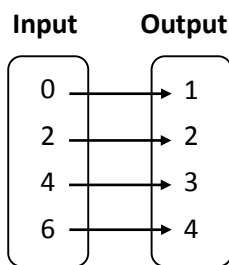


2)

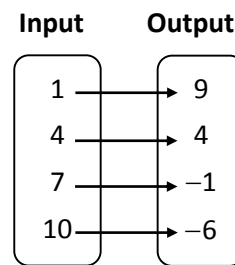


List the ordered pairs shown in the mapping diagram.

3)



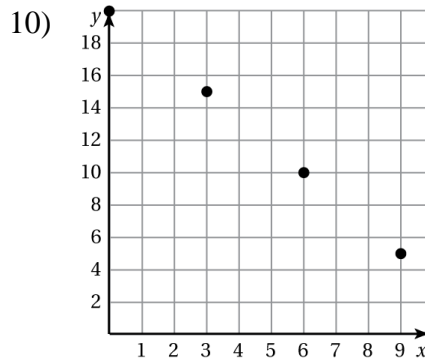
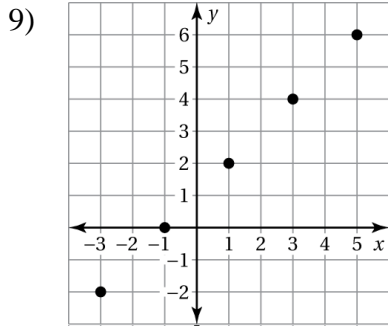
4)



Draw a mapping diagram of the set of ordered pairs.

5) $(1, 2), (3, 5), (6, 9), (10, 12)$ 6) $(-2, 7), (0, 5), (5, 8), (4, 9)$ 7) $(0, -3), (4, 12), (6, 13), (7, 0)$ 8) $(1, 0), (3, 0), (5, 4), (7, 4), (9, 4)$

Draw a mapping diagram for the graph. **Then** describe the pattern of inputs and outputs.



11) The table shows the number of tickets purchased and the total cost.

a) Use the table to draw a mapping diagram.

Tickets	Total Cost
1	\$14
2	\$24
3	\$30
4	\$32

b) Is the relation a function? Explain.

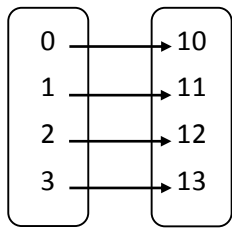
c) Describe the pattern. How does the cost per ticket change as you buy more tickets?

d) Based on this pattern, how much would you expect to pay for 5 tickets?

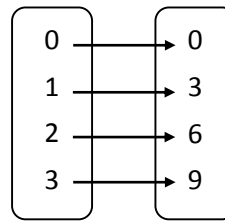
e) Compare the costs for 3 tickets and 5 tickets. What can you suggest?

Write an equation that describes the function.

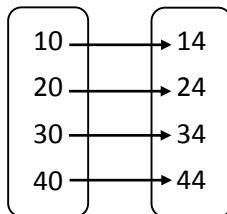
12) Input, x Output, y



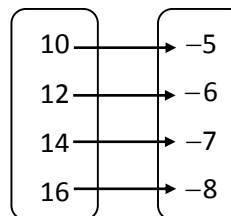
13) Input, x Output, y



14) Input, x Output, y



15) Input, x Output, y



Write a function rule (equation) for the statement.

16) The output is eight less than the input.

17) The output is double the input.

18) The output is five times the input.

19) The output is two less than the input.

Find the value of y for the given value of x .

20) $y = 3x - 4$; $x = 2$

21) $y = \frac{x}{3} - 1$; $x = -6$

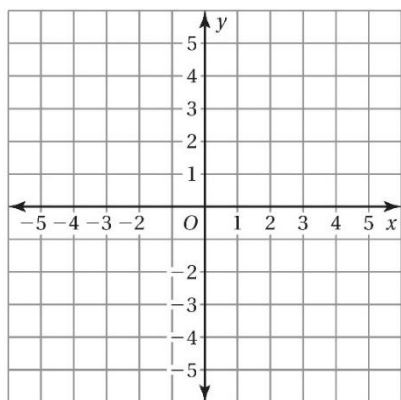
Find the value of x for the given value of y .

22) $y = 6x - 4$; $y = 20$

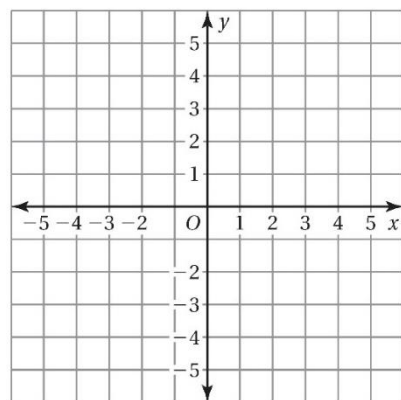
23) $y = \frac{x}{2} + 3$; $y = 1$

Graph the function. (Clue: create a input-output table)

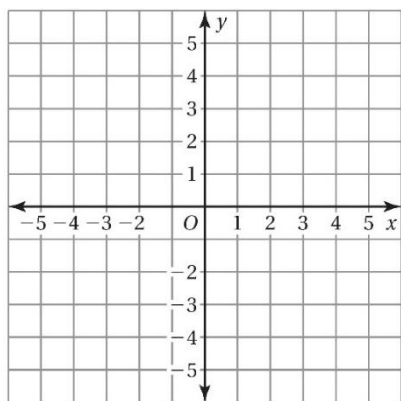
24) $y = x - 4$



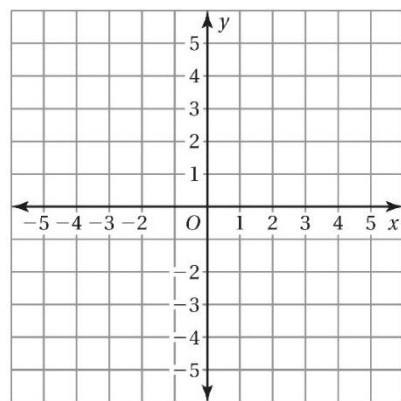
25) $y = 2x + 3$



26) $y = -3x + 1$



27) $y = -x + 3$



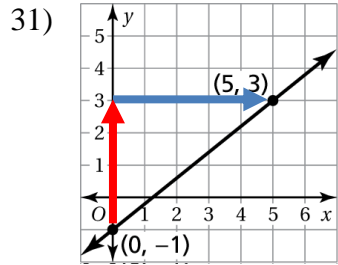
In your own words, what is the rise of the slope of a line?

28) In your own words, what is the rise of the slope of a line?

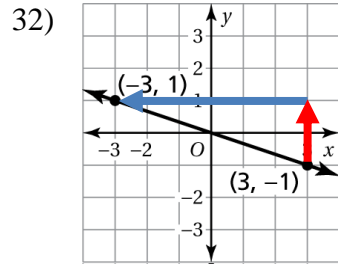
29) In your own words, what is the run of the slope of a line?

30) What is the ratio that describes what slope is?

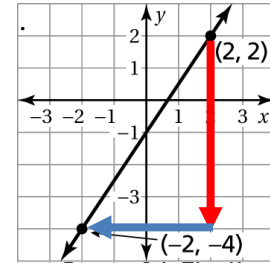
For the following, identify the (a) rise, (b) run, (c) slope, and (d) y-intercept of each of the lines



- a) _____
- b) _____
- c) _____
- d) _____



- a) _____
- b) _____
- c) _____
- d) _____



- a) _____
- b) _____
- c) _____
- d) _____