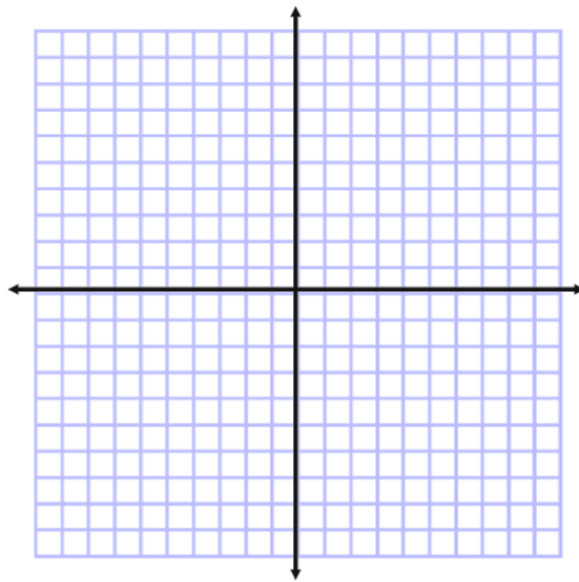


Ch.1-2 – Functions and Graphs

Skills

- 1-2a - Determine whether a relation is a function (correspondences).
- 1-2b - Determine whether a relation is a function and determine its domain and range.
- 1-2c - Use function notation and identify inputs and outputs.
- 1-2d - Graph various functions using a table.
- 1-2e - Use a graph to determine a function value.
- 1-2f - Use the vertical line test to determine if a relation is a function.
- 1-2g - State the domain of a function when given the function's definition.
- 1.2h - Visualize the domain and range of a function by evaluating the graph.

Introduction



Domain -

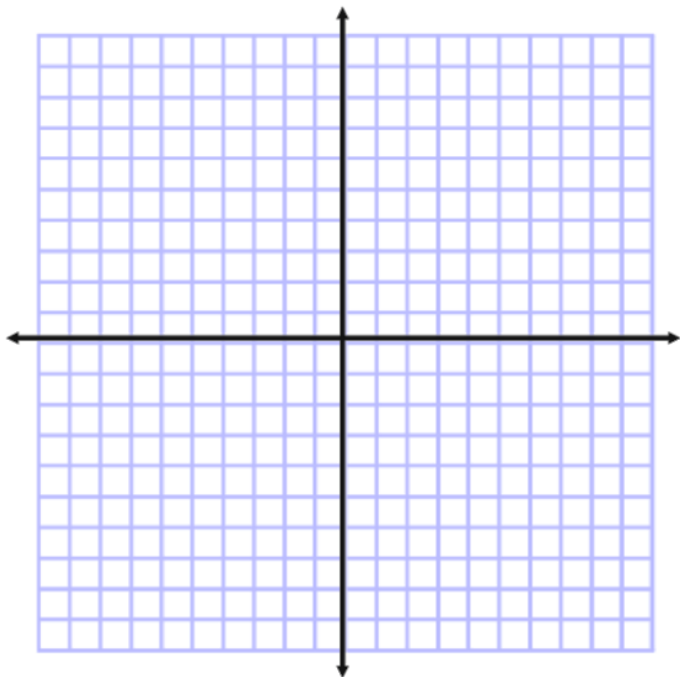
Range -

Example 1	Example 2	11)
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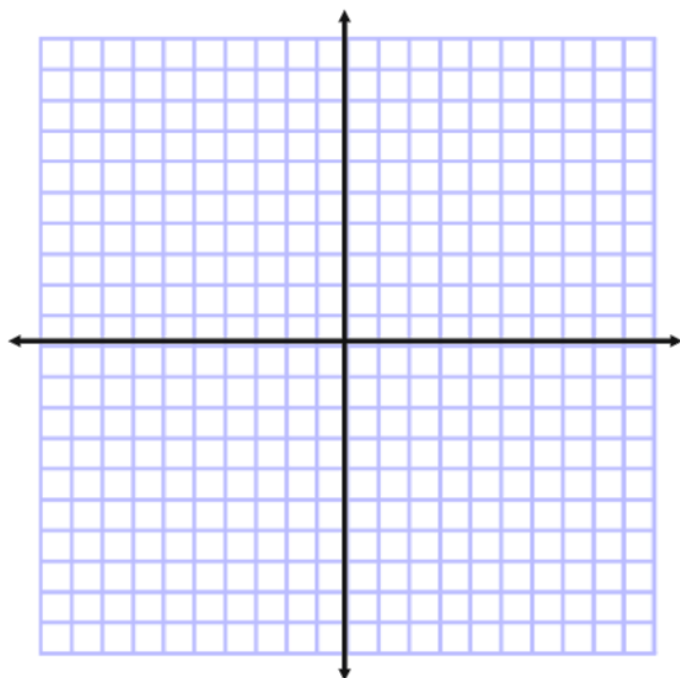
Example 3	15)	17)
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Example 4	21)
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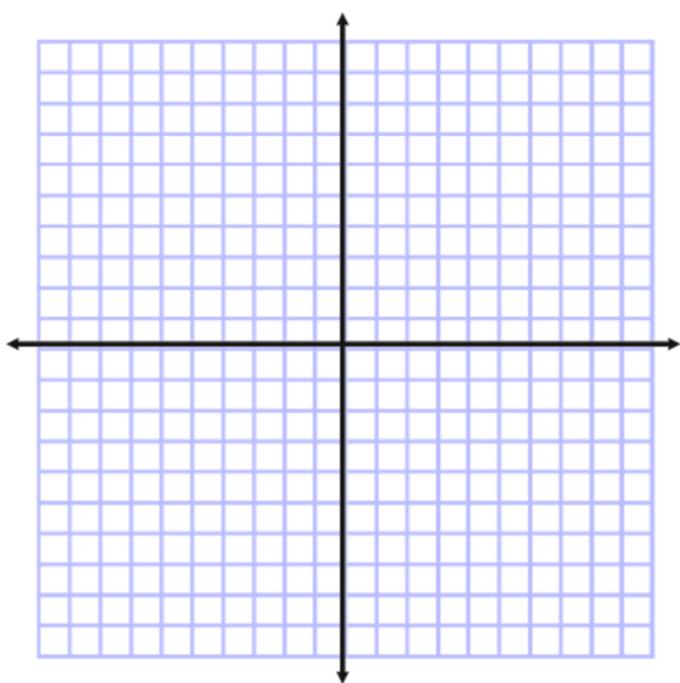
Example 5a



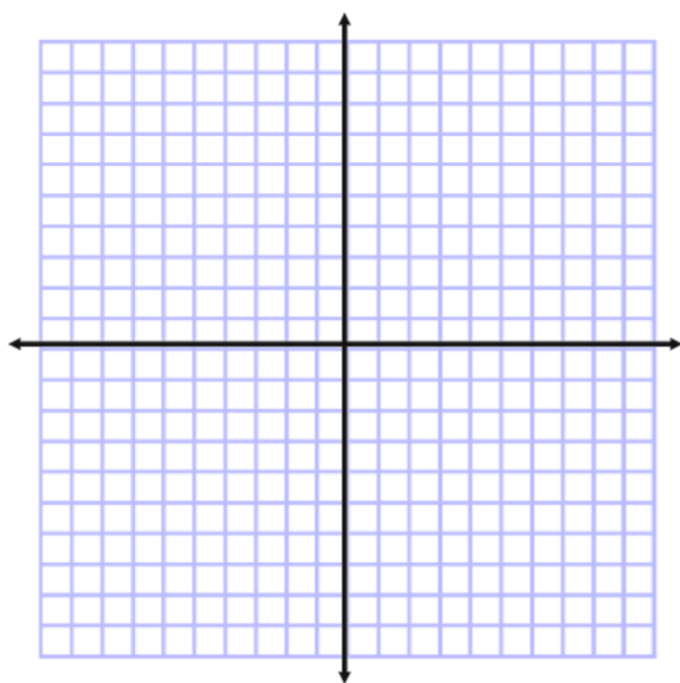
Example 5b



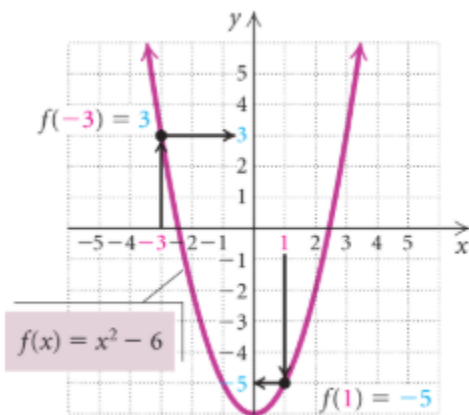
Example 5c



31)



Example 6

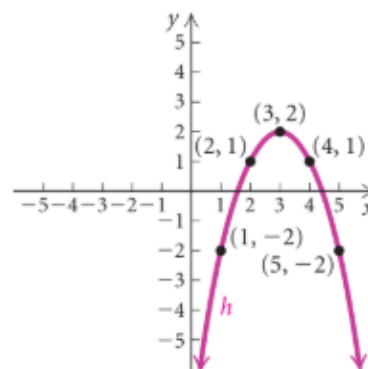


$f(-3) =$

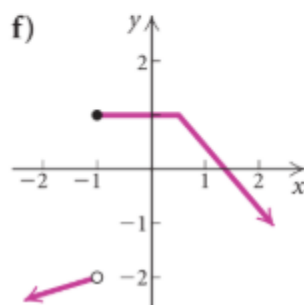
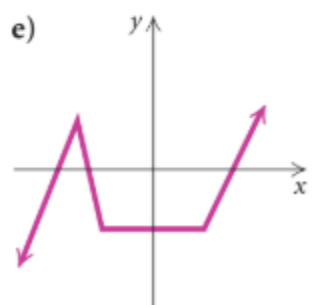
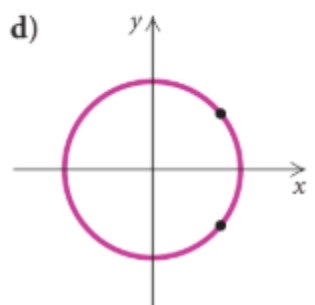
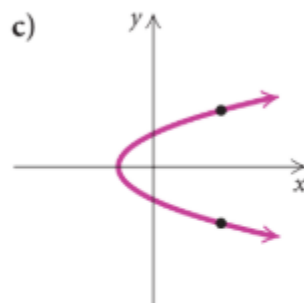
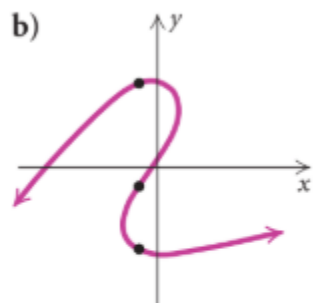
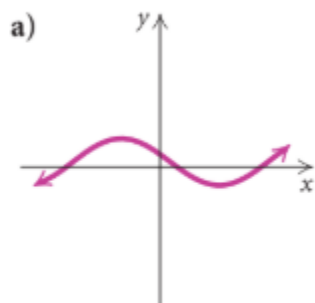
$f(1) =$

A graph of a function is shown. Using the graph, find the indicated function values; that is, given the inputs, find the outputs.

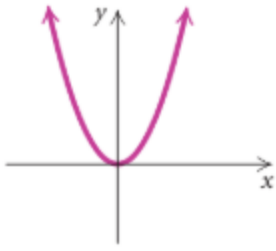
35. $h(1)$, $h(3)$, and $h(4)$



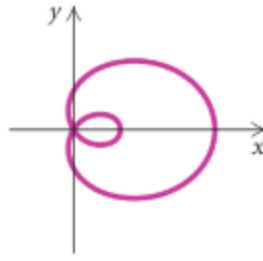
EXAMPLE 7 Which of graphs (a)–(f) (in red) are graphs of functions? In graph (f), the solid dot shows that $(-1, 1)$ belongs to the graph. The open circle shows that $(-1, -2)$ does *not* belong to the graph.



43.



47.



Example 8

Example 9

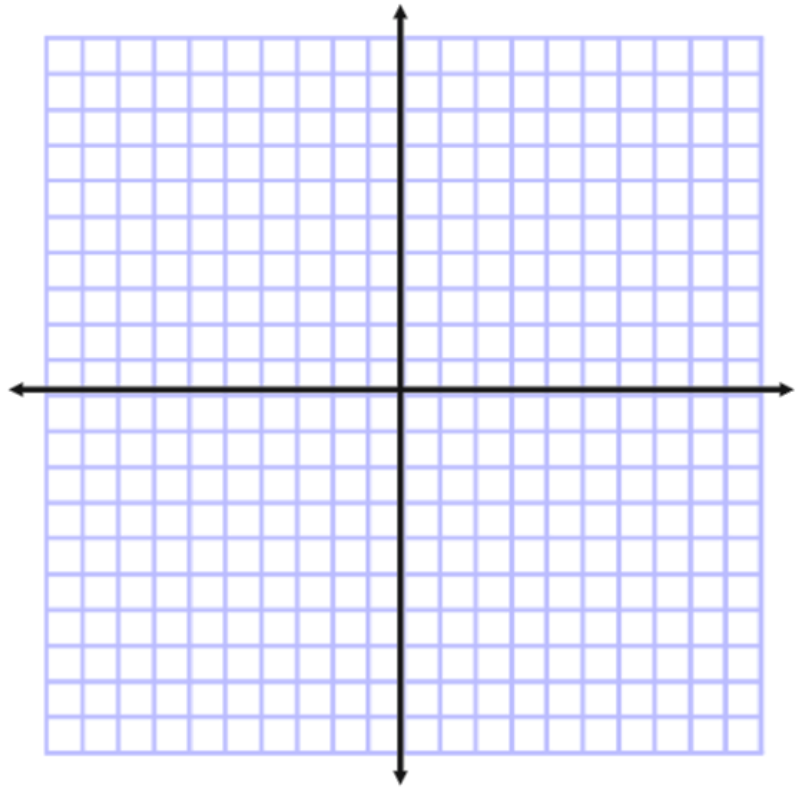
55)

57)

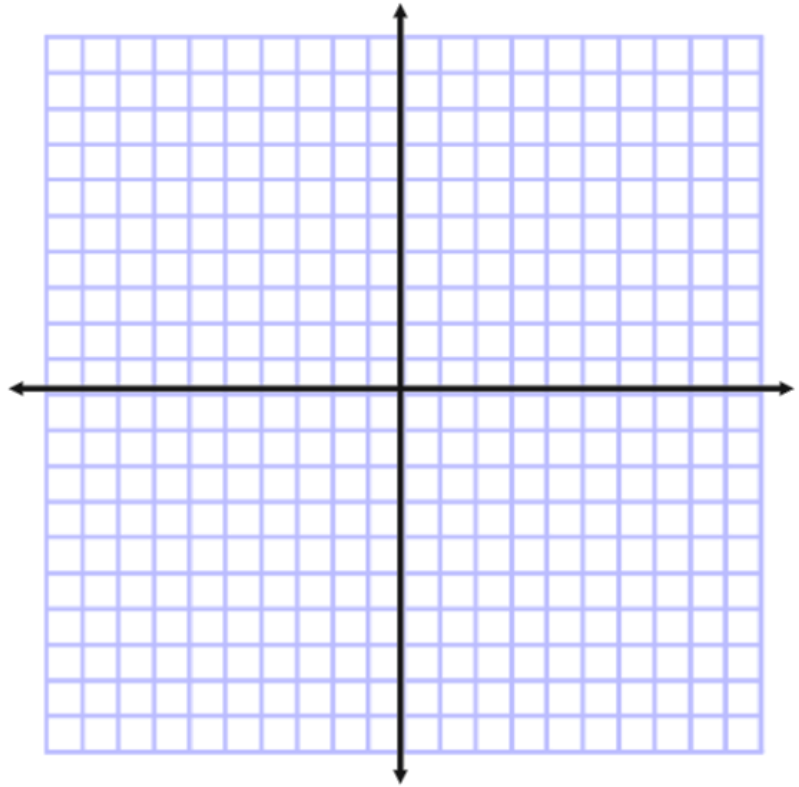
61)

**For Example 10, just watch the video.

71)



77)



Extra Practice for 1.2a on p.86 #1-14 - Follow the instructions in the book and complete the problems.

Extra Practice for 1.2b on p.86 #15-20 - Follow the instructions in the book and complete the problems.

Extra Practice for 1.2c on p.86 #21-28 - Follow the instructions in the book and complete the problems.

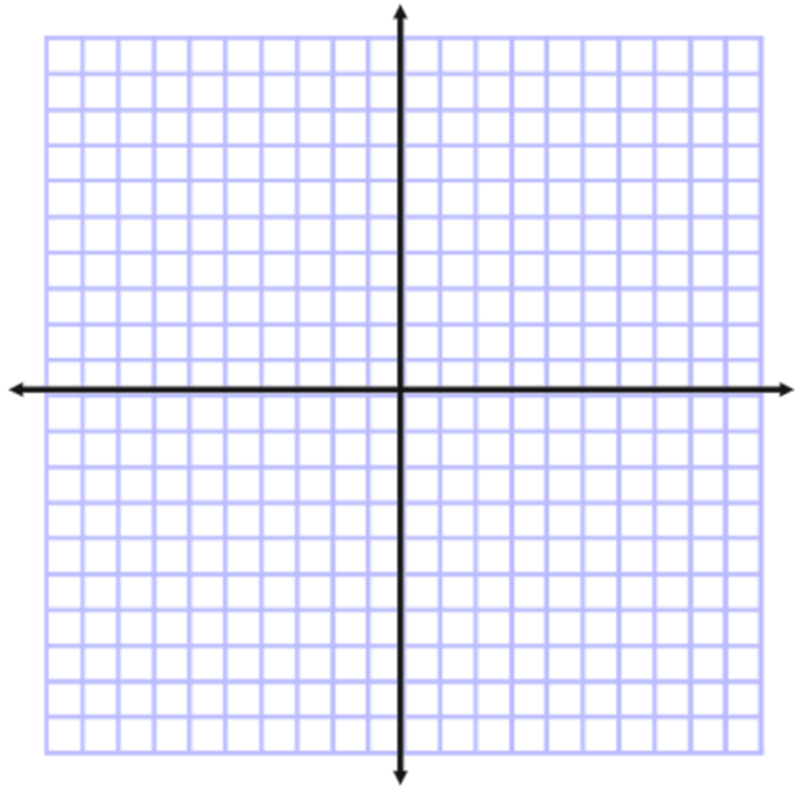
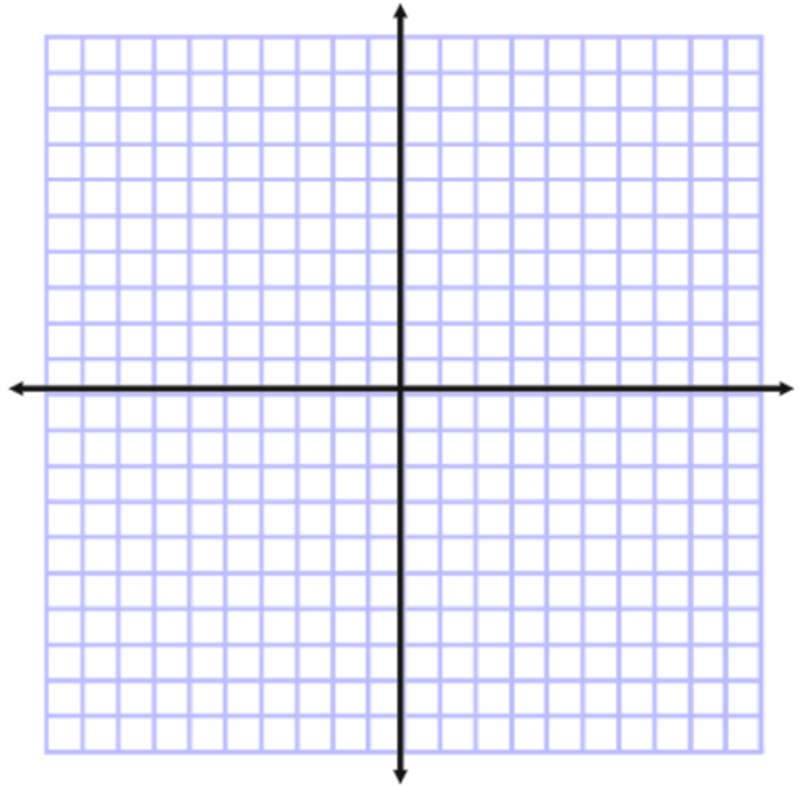
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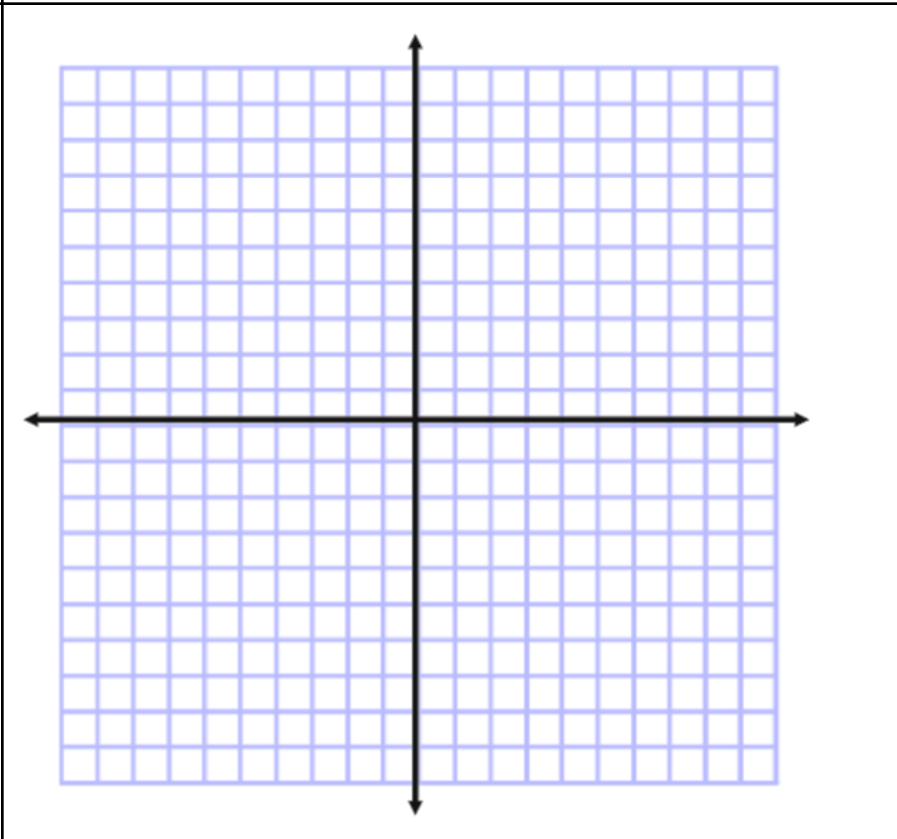
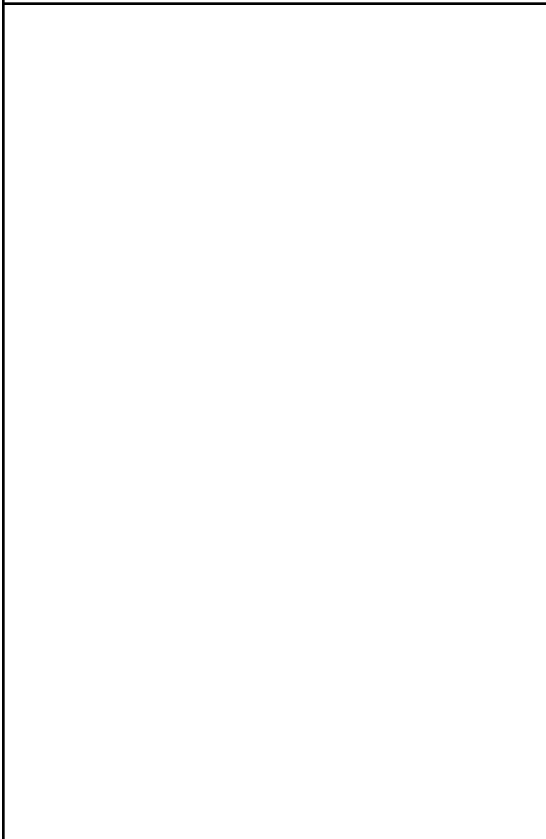
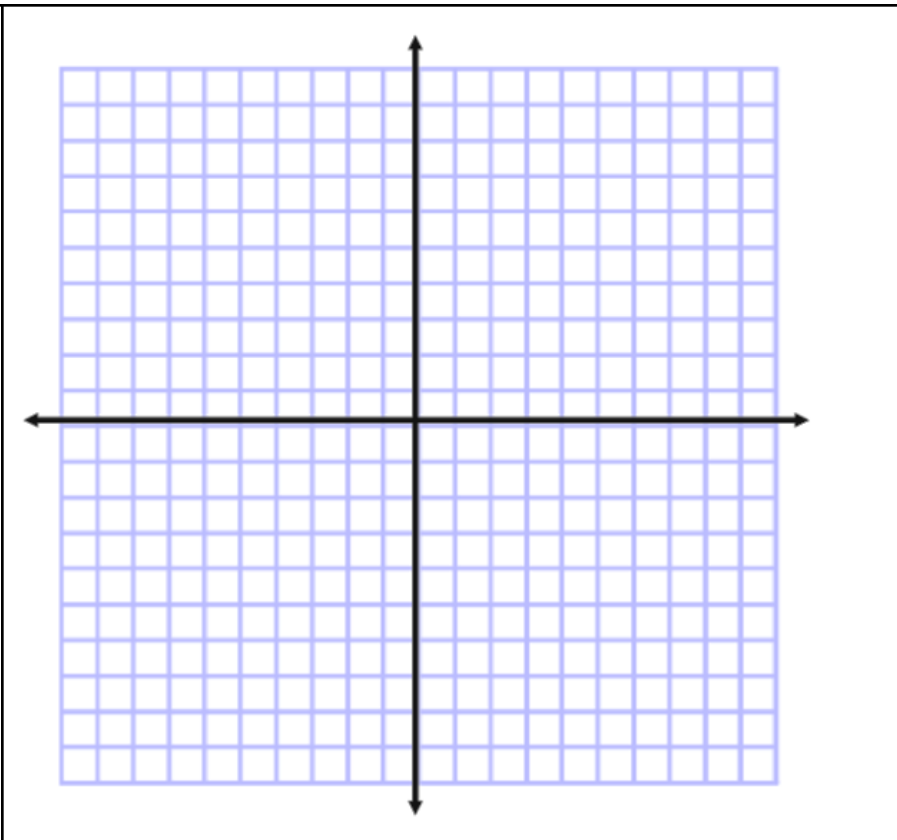
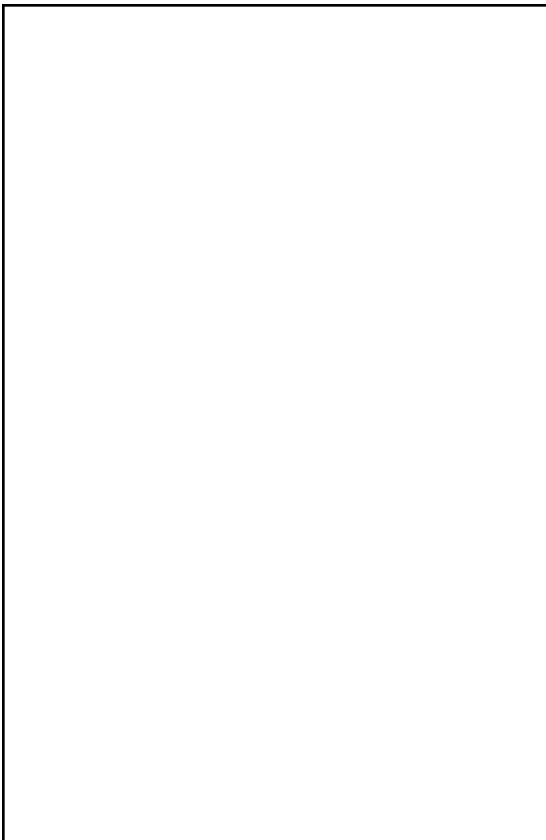
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Extra Practice for 1.2c on p.86 #81-83 - Follow the instructions in the book and complete the problems.

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Extra Practice for 1.2d on p.86 #29-34 - Follow the instructions in the book and complete the problems.



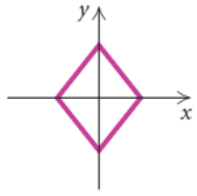


Extra Practice for 1.2e on p.86 #35-40 - Follow the instructions in the book and complete the problems.

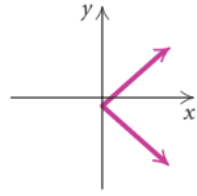
Extra Practice for 1.2f on p.86 #41-48 - Follow the instructions in the book and complete the problems.

In Exercises 41–48, determine whether the graph is that of a function. An open circle indicates that the point does not belong to the graph.

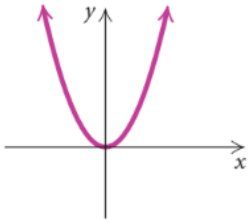
41.



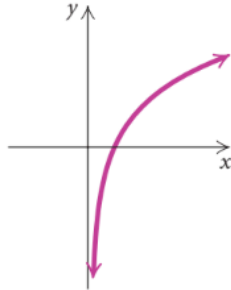
42.



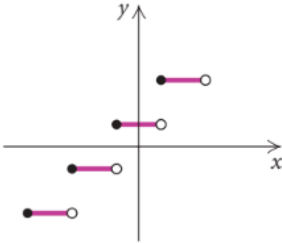
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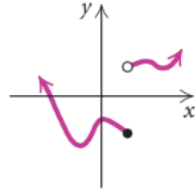
44.



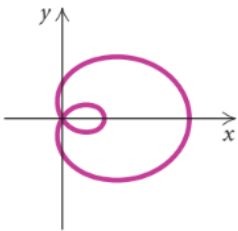
45.



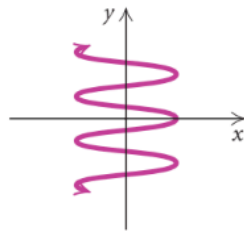
46.



47.



48.



41)

42)

43)

44)

45)

46)

47)

48)

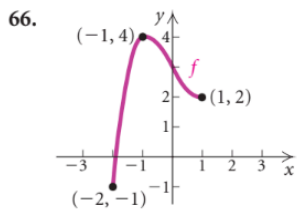
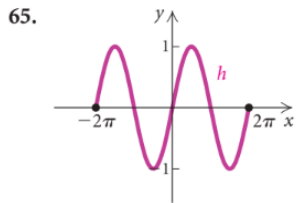
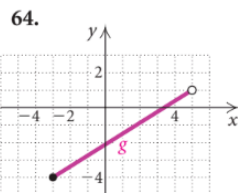
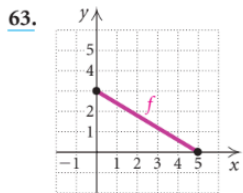
Extra Practice for 1.2g on p.86 #49-62 - Follow the instructions in the book and complete the problems.

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Extra Practice for 1.2h on p.86 #63-70 - Follow the instructions in the book and complete the problems.

In Exercises 63–70, determine the domain and the range of the function.



63)

64)

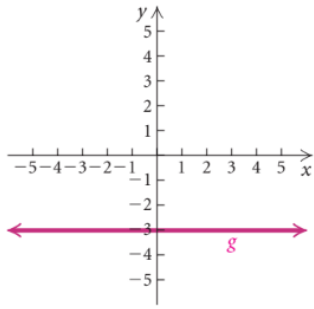
65)

66)

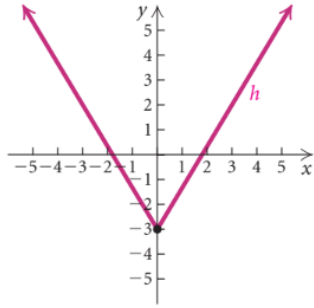
67)

68)

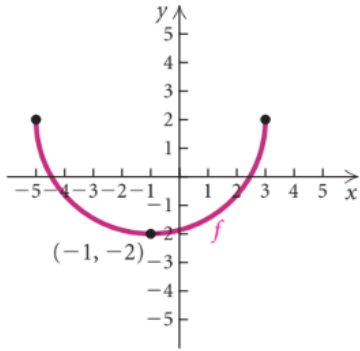
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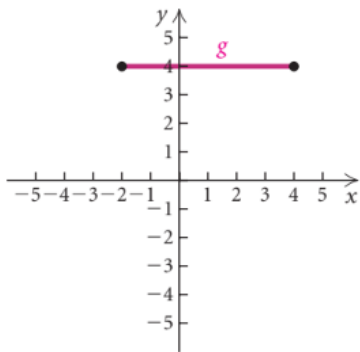
68.



69.



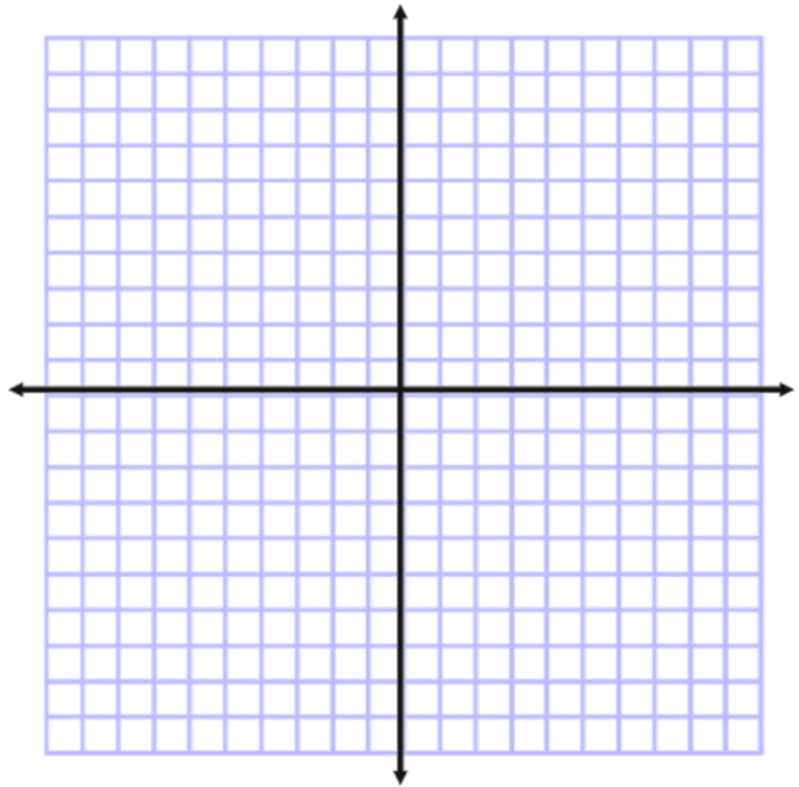
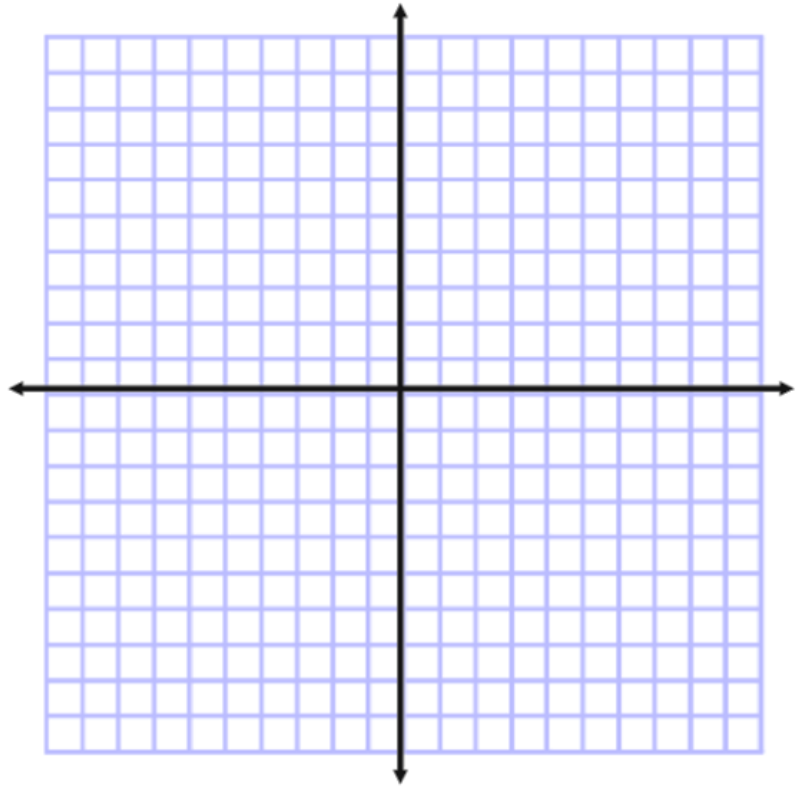
70.

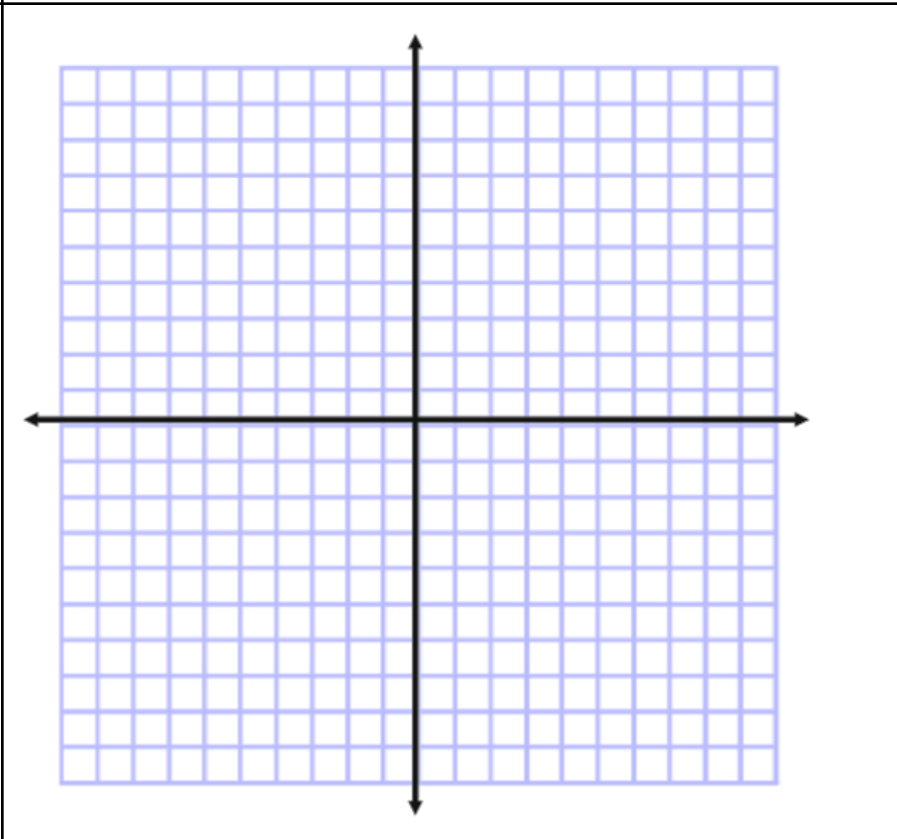
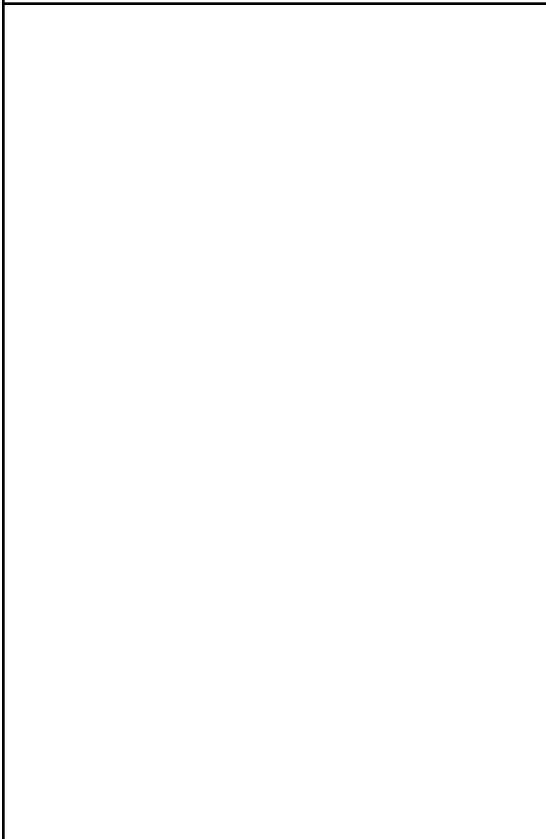
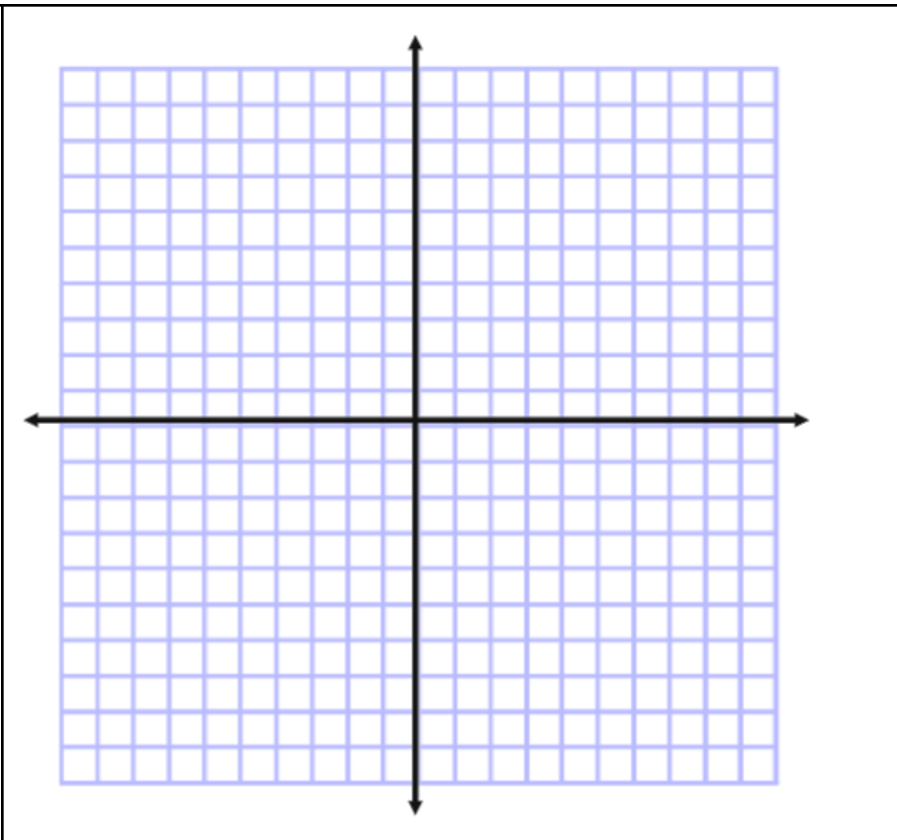
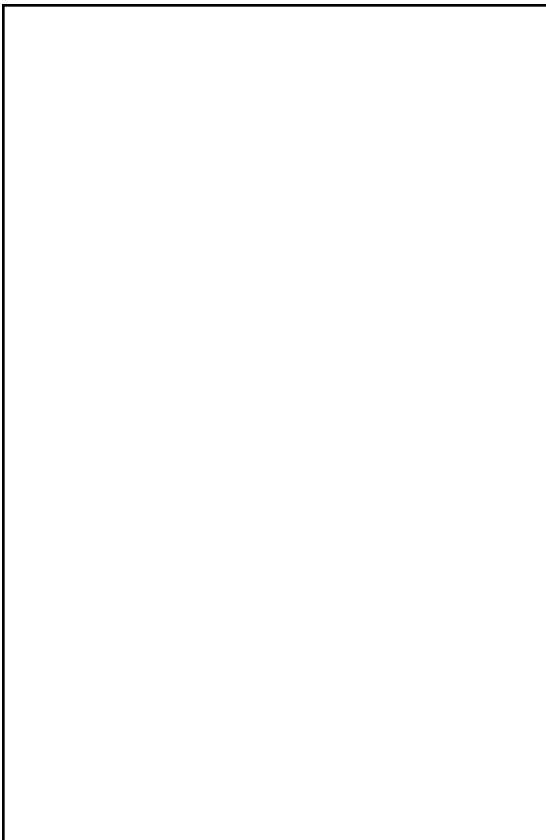


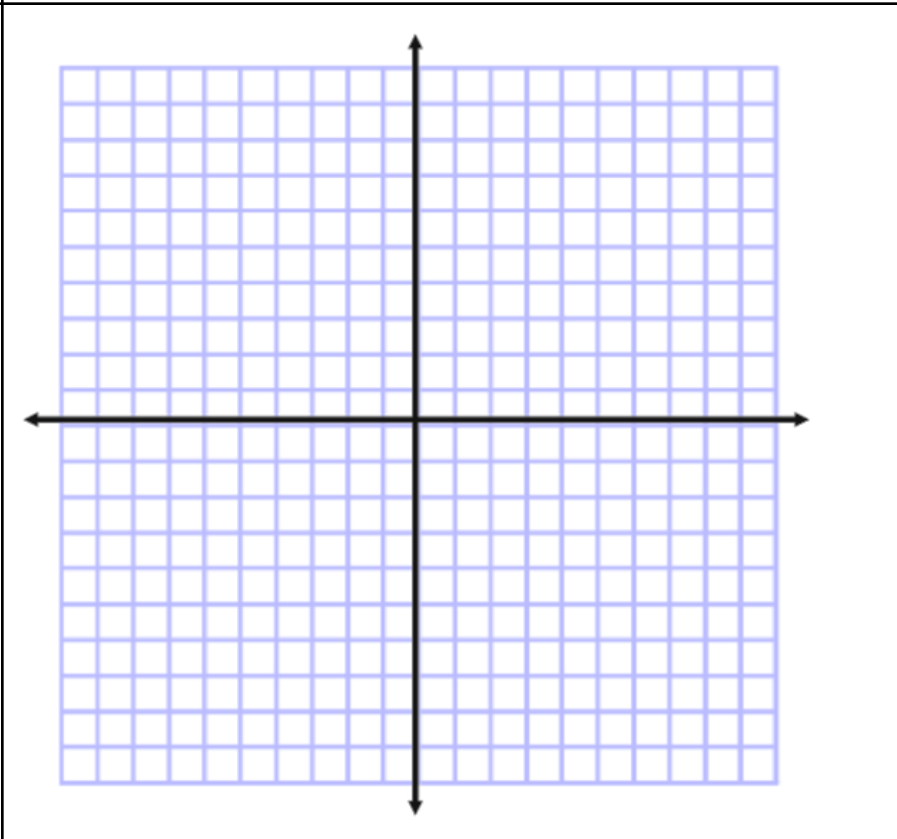
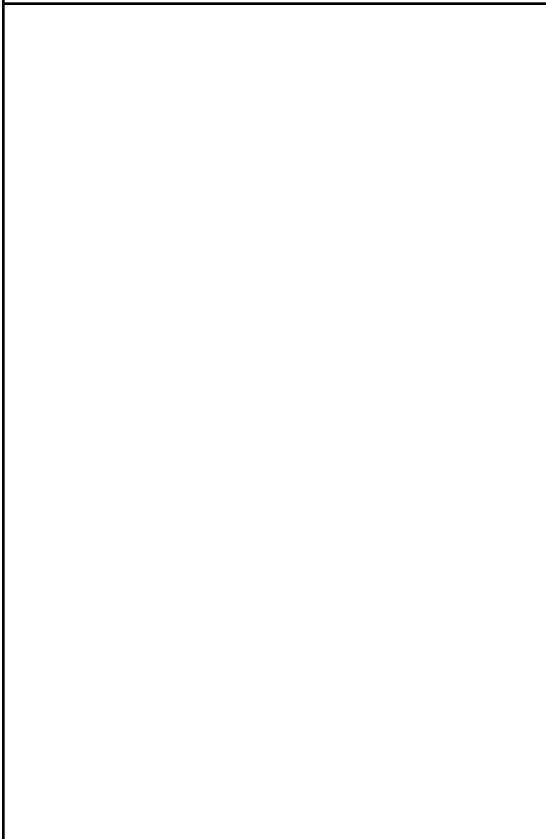
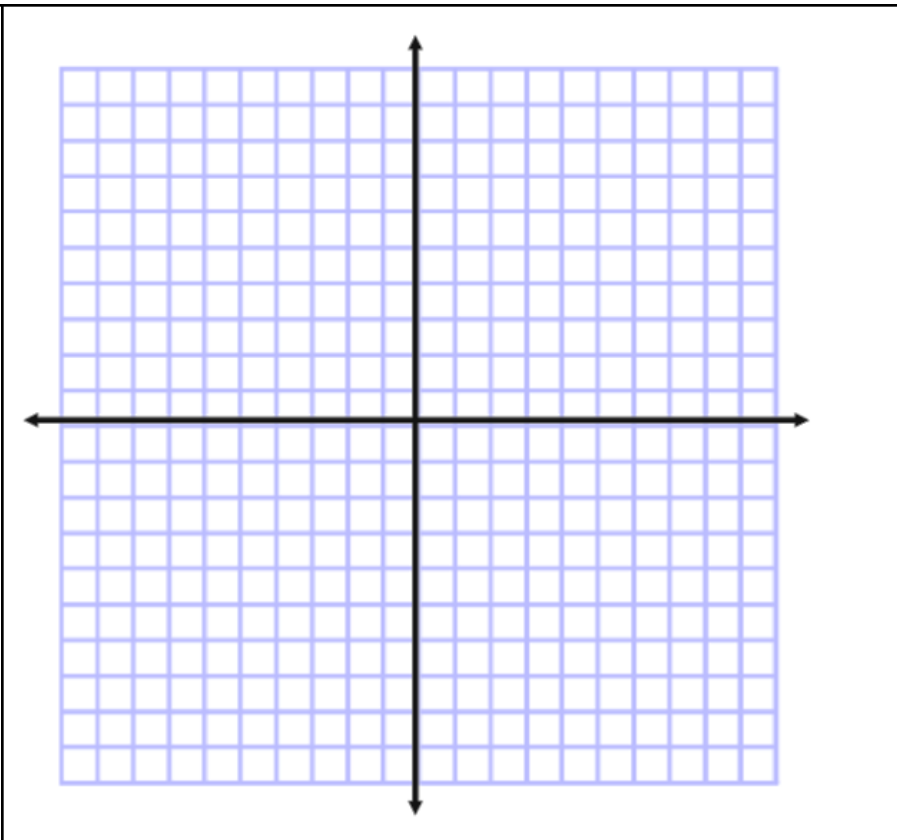
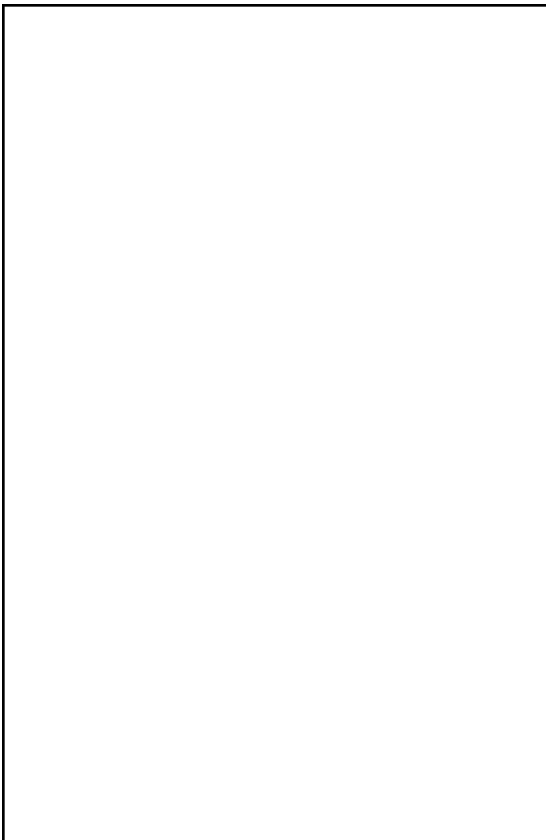
69)

70)

Extra Practice for 1.2h on p.86 #71-80 - Follow the instructions in the book and complete the problems.







Ch.1-2 - IXL PRACTICE

IXL - A1-M.4 - Identify functions

Date				Final
Grade				
Initials				

1.2a

IXL - A1-M.2 - Domain and range of relations

Date				Final
Grade				
Initials				

1.2b

IXL - A1-M.7 - Evaluate a function

Date				Final
Grade				
Initials				

1.2c

IXL - A1-M.9 - Complete a function table from a graph

Date				Final
Grade				
Initials				

1.2d

IXL - A1-M.10 - Complete a function table from an equation

Date				Final
Grade				
Initials				

1.2e

IXL - A1-M.5 - Identify functions: vertical line test

Date				Final
Grade				
Initials				

1.2f

IXL - A1-FF.3 - Domain and range of square root functions: equations

Date				Final
Grade				
Initials				

1.2g

IXL - A1-FF.2 - Domain and range of square root functions: graphs

Date				Final
Grade				
Initials				

1.2h

IXL - A1-Y.9 - Domain and range of quadratic functions: graphs

Date				Final
Grade				
Initials				

1.2h

Conclusions: