

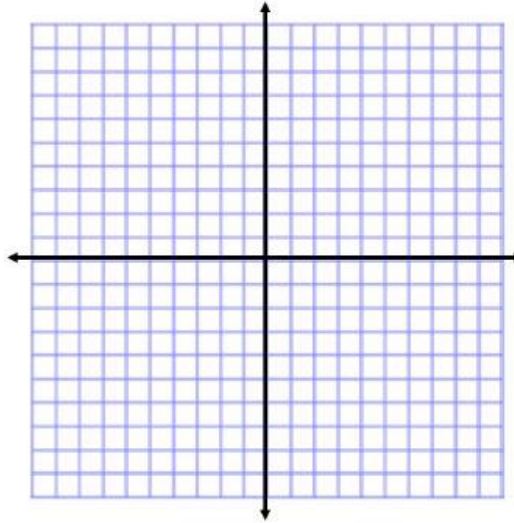
Chapter 1 Practice



Below are problems that represent concepts that have been discussed in class thus far. Once you have completed each question, please rate your level of understanding in the box to the right.

1. Given the function $f(x) = x^2 + x - 6$, complete each of the following.

a. Make a table for the function



b. Graph the function





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c. What is the domain and range of the function?

d. What are the x - and y -intercepts?

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2. If $f(x) = \sqrt{2x - 8}$, evaluate each of the following expressions.



a. $f(12)$



b. $f(6)$

c. $f(4)$

d. $f(0)$

e. $f(x) = 3$

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3. If $h(x) = -4x^2 + 5$, evaluate each of the following expressions.

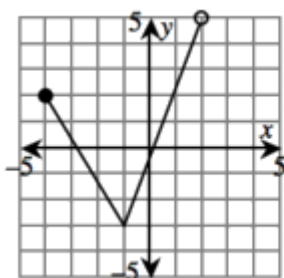
a. $h(x) = -31$

b. $h(x) = 1$

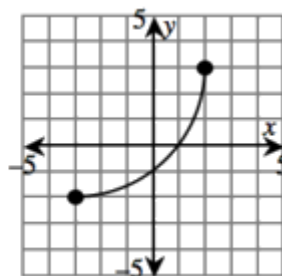
c. $h(x) = -11$



4. Find the domain and range for each of the following functions.

a.

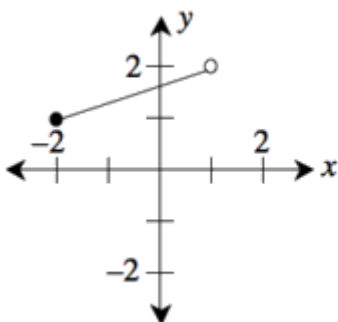


b.

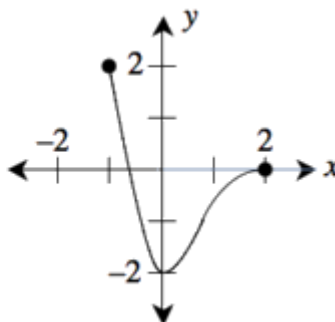


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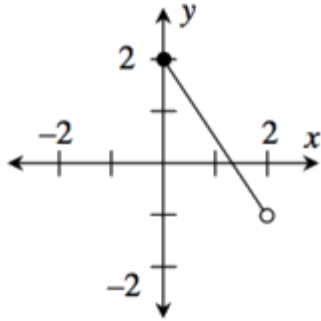
c.



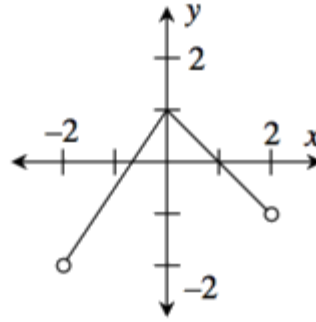
d.





e.



f.



5. Solve for x in the following equations. Be sure to show all your work.

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a. $3(2x - 1) - 2(x + 1) = 7$

b. $4x - x^2 + 3 = 2(x - 6) + 5x - (3x + 1)$