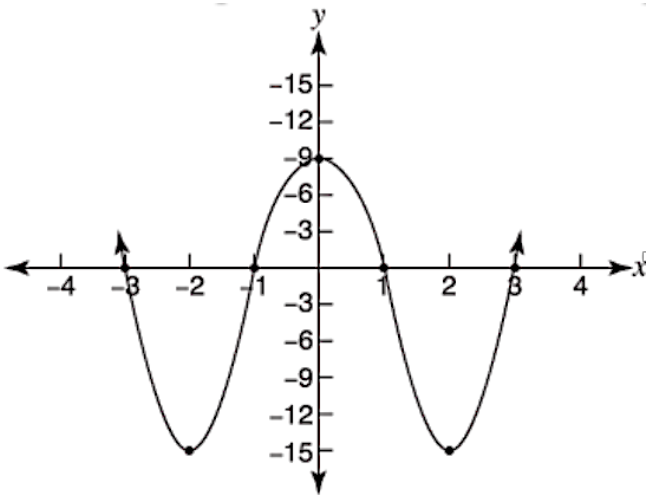
Integrated Math 3
Unit 3: Representing Functions
3.3B

Name: _____

Date: _____ Period: _____

1. List the key features for each graph.



a. x-Intercept(s):

b. y-Intercept(s):

c. Absolute Maximum(s):

d. Relative maximum(s):

e. Absolute Minimum(s):

f. Relative minimum(s):

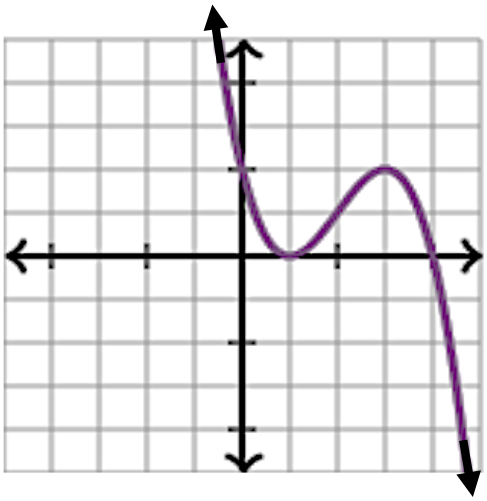
g. Interval(s) of increasing:

h. Interval(s) of decreasing:

i. Domain:

j. Range:

k. End Behavior:



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b. y-Intercept(s):

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d. Relative maximum(s):

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g. Interval(s) of increasing:

h. Interval(s) of decreasing:

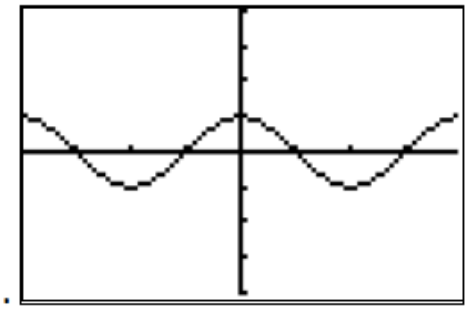
i. Domain:

j. Range:

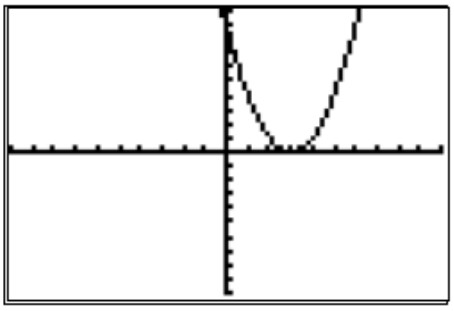
k. End Behavior:

2. For each graph below, determine whether the function appears **even**, **odd**, or **neither**.

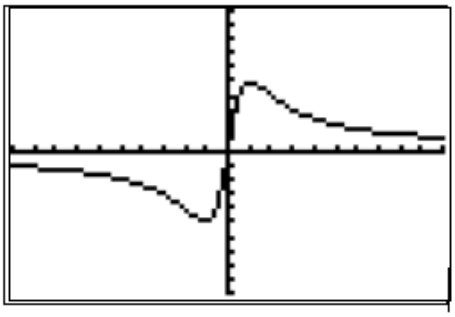
a.



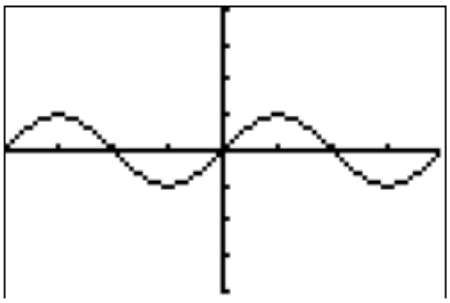
b.



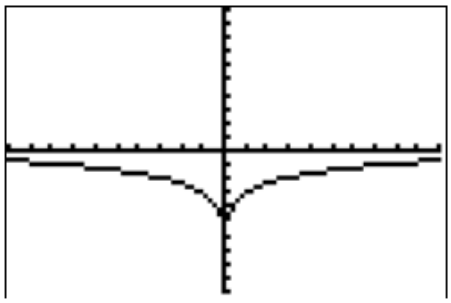
c.



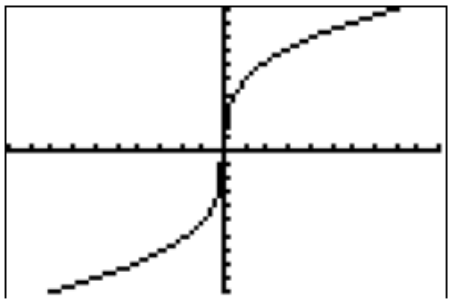
d.

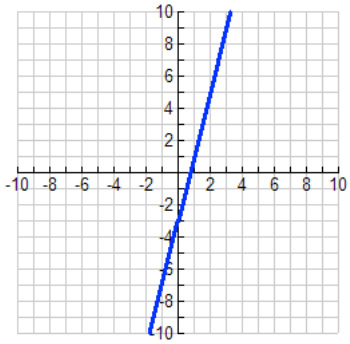


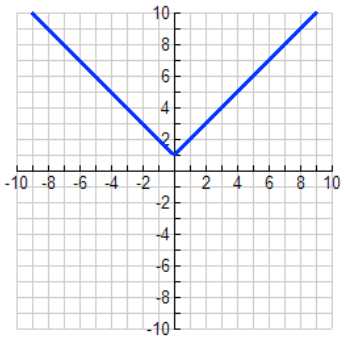
e.

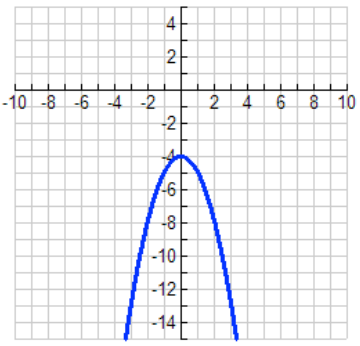


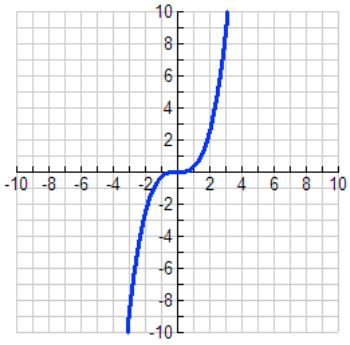
f.

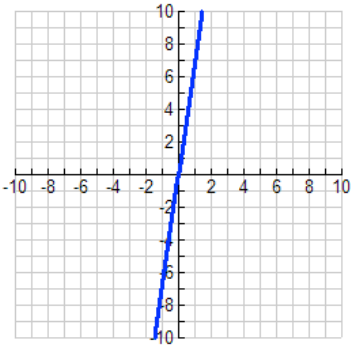


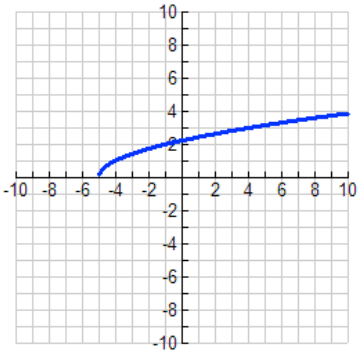




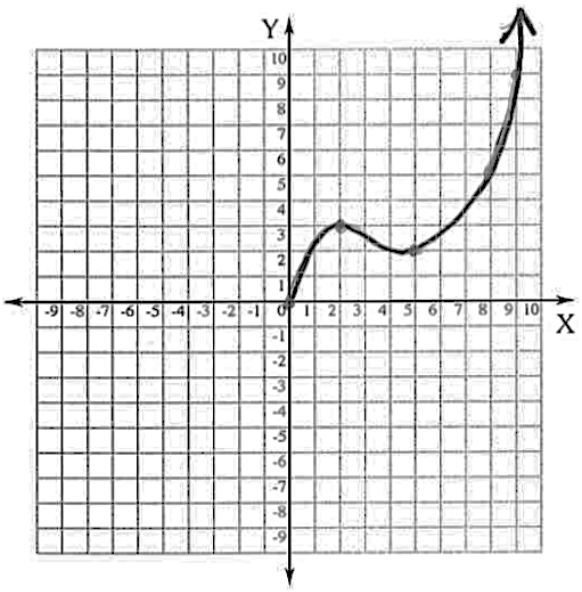




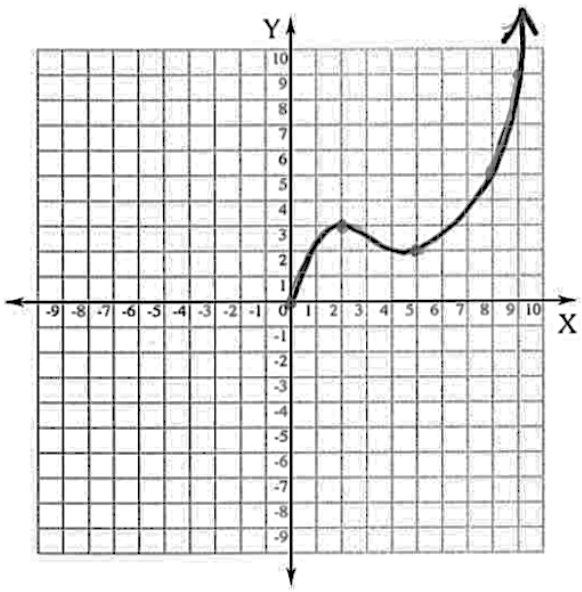




3. Complete the graph so it is **odd.**

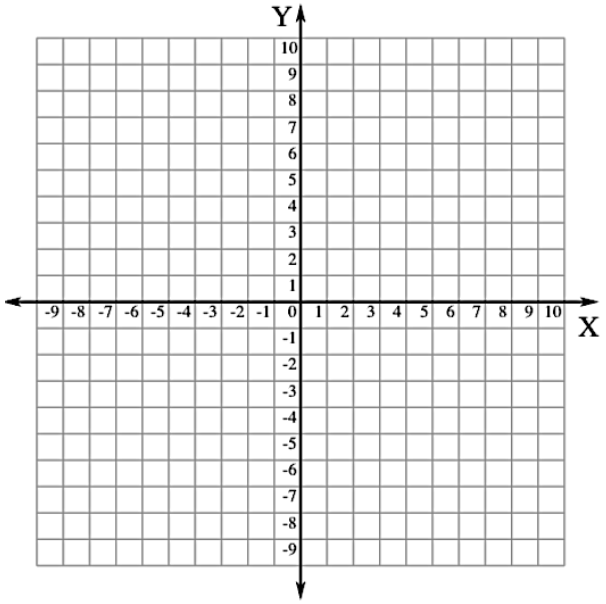


4. Complete the graph so it is **even.**



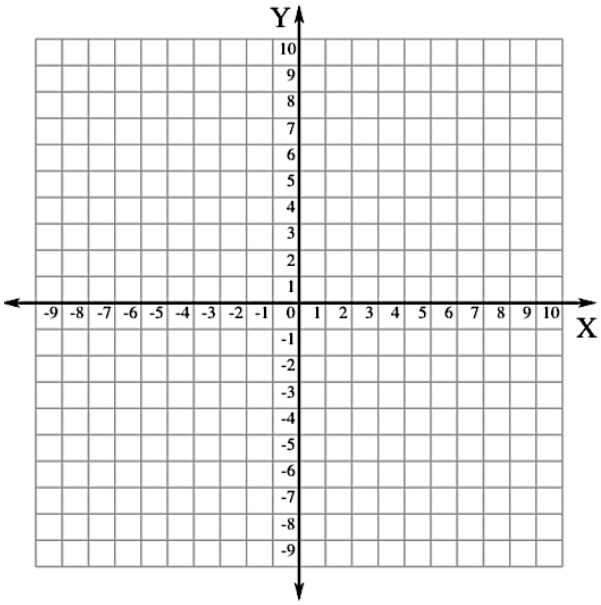
5. Graph each function in your calculator. Fill in a table of points and sketch the function.

a. $y = 2(x+3)^3 - 4$



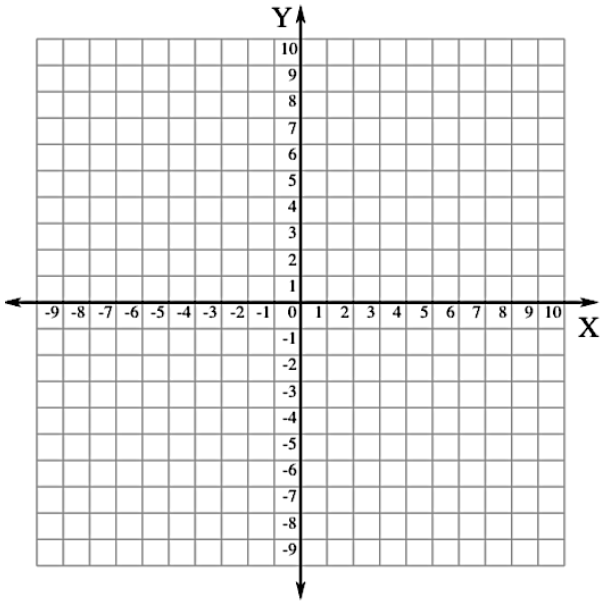
x	y

b. $y = -4\sqrt{x-6}$



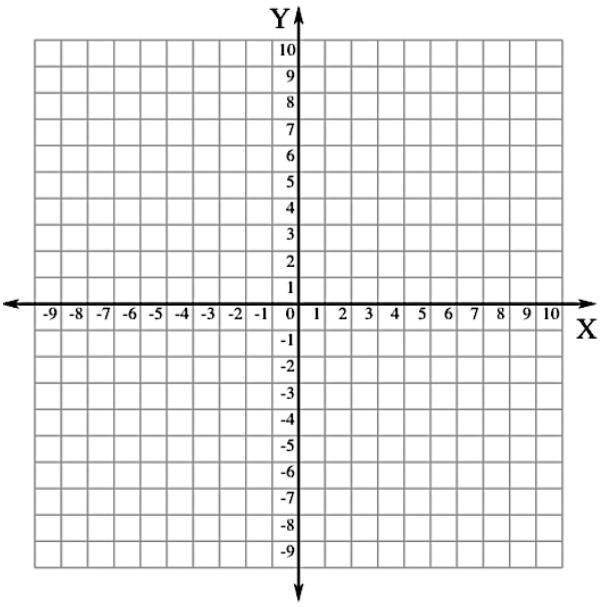
x	y

c. $y = 2^x - 6$



x	y

d. $y - 8 = (x + 4)^2 - 2$



x	y