Limits Activity

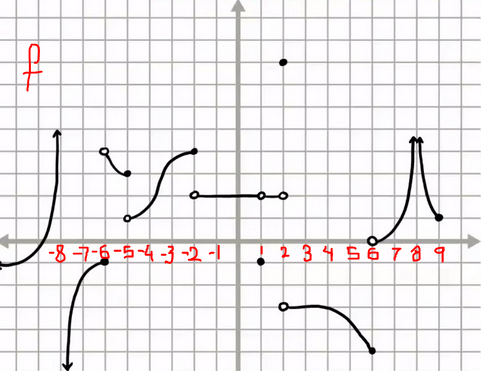
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Group Members\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Given the flowing graph of the function *f* find the following

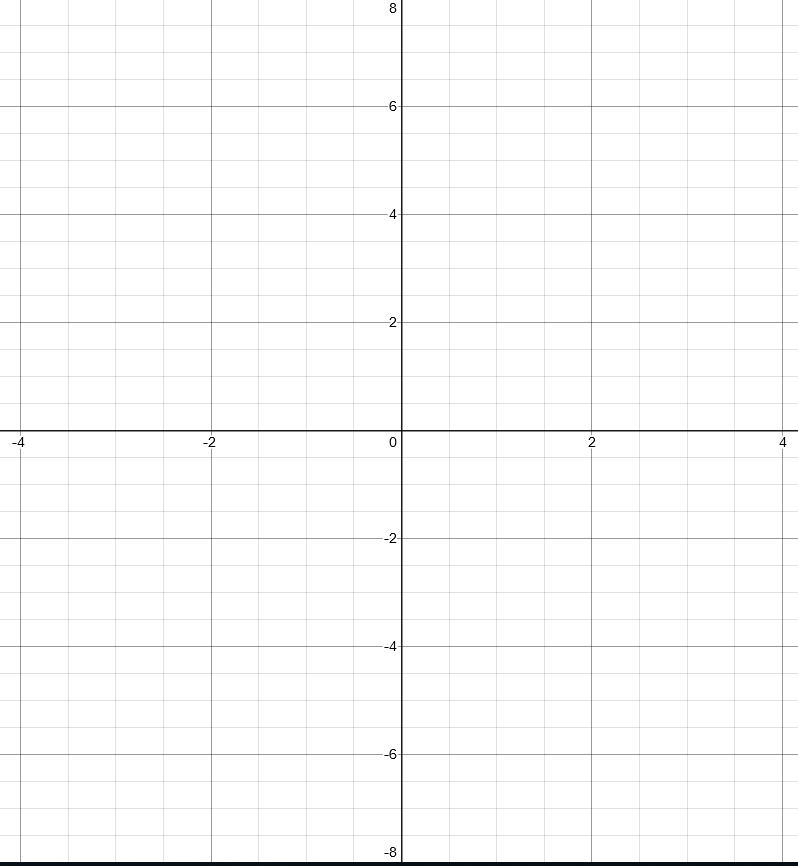



   5. *f(1)*

g

1. Find the following limits:
2. Draw a graph of a function *f* in the axes below that satisfies the following criteria and then indicate at what points the graph is discontinuous:

* and
* and
* , and
* and
* and



1. Given that
2. Find the following linits:
3. What are the *x* and *y* intercepts of *f?*
4. What is the long term behavior of *f* as ?
5. Draw a graph of the function *f* consistent with all the above.

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1. For each of the following,
   * 1. Constuct a numberline with the signs of *f (+,-,0,undefined)*
     2. Find the *x* and *y* intercepts of *f*
     3. Find the limits from the left and the right for all values of *x* for which *f(x)* is undefined.
     4. Find the long term behavior of *f* as
     5. Draw a graph of *f* that iss consistent with the above.