**Mrs.Volynskaya Study Guide Methods for Solving Limits with Calculator**

**Method 1: Graphically Ex.**

**Put equation into graph:**

1. **Use the TRACE button to evaluate**

 **for Y given x = \_\_\_\_, \_\_\_\_, \_\_\_\_**

 **y = \_\_\_\_, \_\_\_\_, \_\_\_\_**

**Method 2: Numerically Ex.**

**Put equation into:**

**Set Table: push 2nd window (TBLSET)**

**TABLE SETUP**

**TblStart = \_\_\_\_**

** = \_\_\_\_**

**Indpnt: Auto**

**Depend: Auto**

 **Table: push 2nd Graph (TABLE)**

**Look at table to evaluate the Limit = ­­\_\_\_\_\_\_\_\_**

**Method 3: Analytically**

1. **Plug the x value being approached into the given function.**
2. **If your result exists then that is your solution.**
3. **If your result doesn’t exist and is not then the limit does not exist.**
4. **If your result doesn’t exist and is then the limit exists.**
5. **The expression needs to be simplified to find the limit.**
6. **After you simplify re-plug in the x value to find the solution.**

**Mrs.Volynskaya Evaluating Limits by Viewing the Graph of F(x) Name\_\_\_\_\_\_\_\_\_\_\_**

1. **Use the Graph of f below to evaluate each limit:**



1. **b. c.**

**d. e. f.**

1. **Use the Graph of g below to evaluate each limit:**



1. **b. c.**

**d. e. f.**

1. **Use the graph to evaluate each limit:**



1.
2. **Use the graph to evaluate each limit:**



1.
2. **Use the graph to evaluate each limit:**



1. **b.**

**c. d.**

**e. f.**

1. **Use the graph to evaluate each limit:**



1. **b. c.**

**d. e. f.**

**g. h. i.**

**j. k.**

**Mrs.Volynskaya FIND the following limits Name\_\_\_\_\_\_\_\_\_\_\_\_**

1. **2.**

**3. 4.**

 **5. 6.**

**7. 8.**

**9. 10.**