Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ICM Notes – 5.6 Finding Limits Graphically & Numerically**

means

Note:

Examples: Evaluate each using the graphs.

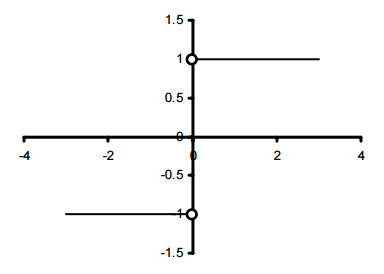
1. A) B) 2. A) B)

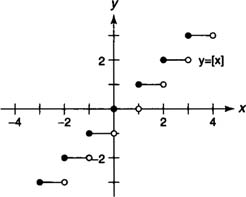




One-sided Limits

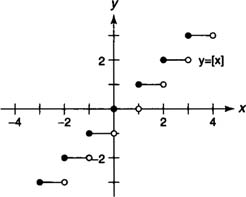
Example

3. A) B) 4. A) B)



Three ways that a limit fails to exist!

1.

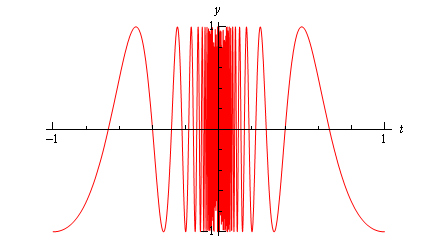
 Example:

2.

Examples:



3.

 Example:

**Find each Limit Using a Table:**

**2nd window for Table Setup, change indpnt to ASK**

1. **2.**

|  |  |
| --- | --- |
| **x** | **y** |
| 1.9 |  |
| 1.99 |  |
| 1.999 |  |
| 2.001 |  |
| 2.01 |  |
| 2.1 |  |

|  |  |
| --- | --- |
| **x** | **y** |
| -0.1 |  |
| -0.01 |  |
| -0.001 |  |
| 0.001 |  |
| 0.01 |  |
| 0.1 |  |

Table Setup – Start: c, ΔTbl: .001 Indnt: AUTO

**3. 4.**

5.