**7.1: Absolute Value**

**Objectives:**

* determine the absolute values of numbers and expressions
* explaining how the distance between 2 points on a number lie can be expressed with absolute value
* comparing and ordering the absolute values of real numbers in a given set

For a real number *a*, the **absolute value** is always the non-negative value of the number. We show absolute value with two vertical lines, like brackets.

**Ex. 1:**    

In general: 

**Ex. 2:** Write the following real numbers in order from least to greatest.

 , , , , , 

We treat absolute value symbols just like brackets. Use the order of operations.

**Ex. 3:** Evaluate 



**Your Turn**

Evaluate the following:

 (a) 

 (b) 

 (c) 

**Ex. 4:** On stock markets, individual stock and bond values fluctuate a great deal, especially when the markets are volatile. A particular stock on the Toronto Stock Exchange (TSX) opened the month at $13.55 per share, dropped to $12.70, increased to $14.05, and closed the month at $13.85. Determine the total change in the value of this stock for the month.

