**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.

