### Chapter 1

* the difference between factoring a polynomial expression and solving a polynomial expression is that:
  + factor a polynomial expression = factoring
  + solve a polynomial expression= find the x-intercepts

### Chapter 2

* if you multiply or divide an inequality by a negative number, you must reverse the inequality sign
* on a number line, the solid dot indicates that the number is included in the solution set; the open dot indicates that the number is not included in the solution set

### Chapter 3

* when solving polynomial inequalities, move the single value into the polynomial expression, so that the expression is than 0.
  + factor the expression, find the x-intercepts, and make a sketch (if needed) to solve the inequality
* can also use the interval table to solve the polynomial inequalities

### Chapter 4

* please refer to Unit 2