**Chapter 3 Review Notes**

* Floating point numbers are approximated so there is no guarantee that 1.0 + 1.0 + 1.0 + 1.0 + 1.0 == 5.0 will come out to true
* Remember if there is an else-if after the first if statement then that section of code won’t be written, don’t be too hasty and read the question properly
* Remember to look at the assignment vs. comparison operator. That can throw you in a question
* Remember
  + With absolute values if its
    - |x-2| <= 4 then the following is true
      * x-2 <=4 && x-2 >= -4
    - But if its |x-2| >=4 then the following is true
      * x – 2 >= 4 || x-2 <= -4
    - Makes sense if you think about it
* Remember short circuit operations, the right operand will not be operated if the left operand is false in an AND statement
  + As well if it’s an OR statement and the left operand is true then the right operand will not be operated
* Remember fall through behavior for switch statements. Once a case is matched, all statements will be executed until a break is reached or the end of the switch statement is reached.
  + The switch control statement must yield an integral or single character value
* The conditional expression ? :
  + Boolean-expression ? expression1 : expression2;
* I disagree with question 37 but it states that
  + even = number % 2 == 0; is a correct statement that will assign a truth value to even
* Operator Precendence
  + ++, -- post fix
  + ++, -- pre fix
  + static\_cast
  + !
  + \*, /, %
  + +, -
  + <, <=, >, >= relational
  + ==. !=
  + &
  + &&
  + ||
  + =, +=, -=, \*=, /=, %= assignment operator