MTH 098 – Test #4

(Thursday May 3rd → 12:30 – 1:20 pm)

Be able to do problems like the following:

• Determine whether two lines are parallel or perpendicular or neither → see Page 428: 49 – 55 and Question #6 on Test #3

• Determine the solution to a system of equations by graphing both equations on the same set of axes and then determining the coordinates of the point of intersection → see Class Practices on Systems of Equations #1 and #2 and Question #7 on Test #3

• Determine the solution to a system of equations by using the method of addition → see Class Practices on Systems of Equations #5 and #6 and Question #8 on Test #3

• Be able to solve word problems involving rectangles and perimeter → see Class Practice on Word Problems #2 and Question #10 on Test #3

• Be able to simplify expressions using the rules of exponents → see Class Practices on Exponents #1 – #3 and Page 230: 11 – 95 and Question #11 on Test #3

• Be able to simplify expressions using the rule for negative exponents → see Class Practice on Exponents #4 and Page 239: 11 – 67, 91 – 99, 115, 117, 119


• Be able to factor polynomials using the method of removal of a common factor and the method of grouping → see Class Practices on Factoring #1 and #2 and Page 287: 1 – 33, 49 – 99 and Page 293: 7 – 49

• Be able to factor trinomials using the ac-method → see Class Practice on Factoring #3 and Page 311: 5 – 33, 39, 47, 49

• Be able to factor expressions that are the difference of two perfect squares → see Class Practice on Factoring #4 and Page 318: 13 – 29, 57, 59, 61

• Be able to solve quadratic equations using the Zero-Factor Property → see Class Practice on Quadratic Equations and Page 323: 7 – 25

• Be able to add, subtract, multiply and divide fractions → see Class Practices on Fraction Review #1 and #2 and Page 350: 17, 19, 21, 35, 37, 39 and Page 364: 7, 9, 11, 13, 15, 17, 21, 23

• Be able to solve equations that contain fractions → see Class Practices on Fraction Equation Practice #1 and #2 and Page 377: 9, 13, 15, 17, 19, 33, 35, 37, 41, 43