MTH 098 – Test #3

(Thursday April 5th → 12:30 – 2:20 pm)

Be able to do problems like the following:

- Graph linear equations by using the method of slope-intercept \((y = mx + b)\) and be able to show where the rise and run are on the graph → see Class Practices on Graphing #8 and #9 and Page 439: 9, 11, 13, 15, 19, 21, 29, 31 and also Question #6 on Test #2

- Graph horizontal and vertical lines and comment on their slopes → see Class Practice on Graphing #5 and Page 418: 21, 23, 41, 43, 65, 67, 75 and also Questions 4 and 5 on Test #2

- Determine whether two lines are parallel or perpendicular or neither → see Page 428: 49 – 55 and Question #12 on Test #2

- 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 Page 471: 37, 39, 41, 43, 47 and Question #3 on Test #2 Take Home Part

- Determine the solution to a system of equations by using the method of substitution → see Class Practices on Systems of Equation #3 and #4 and Page 477: 5, 7, 11, 13, 15, 29 and Question #2 on Test #2 Take Home Part

- 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 Page 485: 5, 7, 9, 13, 19, 23

- Be familiar with the three diagrams on page 465 and able to identify a consistent system of equations, an inconsistent system of equations, and a dependent system of equations → see Page 470: 17, 19, 21, 23 and Questions 10 and 11 on Test #2

- Be able to solve word problems → see Class Practices on Word Problems #1 – #6 and Page 192: 7 – 13, 19, 24, 34, 36 and Page 200: 11, 15, 21, 23, 25, 33, 39 and Page 494: 1, 7, 10, 13, 15, 19, 20

- Be able to simplify expressions using the rules of exponents → see Class Practices on Exponents #1 – #4 and Page 230: 11 – 95 and Page 239: 11 – 67, 91 – 99, 115, 117, 119

- Be able to create an equation from data → see Class Practice on An Application of Slope (Slope #4) and Page 440: 65