MTH 104 – Test #1 Guide Sheet

(Wednesday February 15th → 8:30 – 9:20 am)

Expect to see questions like:

- Page 12: 1 – 11, 13 – 19, 39 – 49, 105
- Page 25: 11 – 33, 43 – 49, 63 – 73, 79, 81, 83
- Page 26: 103 – 117
- Examples 3, 4, 5, 6 on pages 67 through 69
- Examples 7, 8 on pages 69 and 70
- Page 72: 61 – 85, 95 – 103
- Examples 9 and 10 on pages 70 and 71
- Page 73: 119, 121, 123
- Page 46: 13 – 27, 29(a), 31(a), 33(a), 35(a), 37 – 59, 73(a), 75(a), 77, 81, 85, 101, 105
- Page 73: 129, 133
- Page 101: 1, 5, 13
- Page 102: 3, 7, 11
- Page 116: 7, 9, 15, 17, 19, 27, 29, 35, 37, 39, 49, 51, 53, 55, 59
- Page 126: 15, 19, 21, 23, 25, 27, 31, 33, 35, 37, 39, 47, 49, 51, 53, 57
- Class Practice on Integers
- Class Practice on Fractions
- Class Practice on Numerical Expressions #1 and #2
- Class Practice on Simplifying Expressions #1 and #2
- Class Practice on Equation Solving #1, #2, and #3
- Class Practice on Exponents #1 – #4
- Class Practice on Equations and Applications
- Class Practice on Additional Equations and Applications
- Class Practice on Solving a Formula for a Variable
- Class Practice on Distance #1 – #5
- Class Practice on Filling Rates
- Class Practice on Interval Notation
- Class Practice on Inequalities (1) & (2)
- Class Practice on Absolute Value Equations and Inequalities
- Class Practice on Absolute Value
Be able to:

- Determine the intersection of two sets
- Determine the union of two sets
- Use the symbols ≤, ≥, <, >, | in numerical expressions
- Evaluate numerical expressions (PEMDAS)
- Simplify algebraic expressions by using the distributive property and by combining like terms wherever possible
- Solve linear equations containing one variable and be prepared to show the operation(s) that you are performing on both sides of the equation
- Determine whether a linear equation containing one variable is a conditional equation, an identity, or a contradiction and be able to explain how you know
- Use formulas to determine the value of a variable
- Solve a formula for a variable
- Solve applied problems involving rate, time, and distance
- Solve applied problems on filling rates
- Solve basic inequalities and show the answer in algebraic form, graphical form, and interval notation
- Solve compound inequalities and show the answer in algebraic form, graphical form, and interval notation
- Solve absolute value equations
- Solve absolute value inequalities