

**Division of Arts and Sciences**

**Math Skills II**

**Final Exam**

Student Name:

Date:

09/18/2015

Instructor:

Lucie Mingla

Math Skills II – MAT 010

Summer Semester 2015

 **This exam is required by ASA Administration. Answer all questions and show accompanying detailed solutions ONLY on these pages to receive full credit.**

* *No Cell phones or any electronic devices are allowed during the exam.*
* *Once the final exam begins, students cannot leave the room until the exam is finished.*
* *No scrap paper is allowed during the exam.*

**Simplify using the correct order of operations.**

1.
2.
3.

**Simplify each algebraic expression.**

1.
2.

**Evaluate each algebraic expression.**

1.
2. **Solve.** To make a purple color we use 3 gallons clean blue paint, red paint and gallons rose paint. How many gallons are there altogether?
3. **Solve.** Donovan took a math test and got 18 correct and 7 incorrect answers. What was the percentage of correct answers?
4. The purchase price of a house is $500,000 and requires a down payment of 25%. What is the balance due after the down payment for this house?

**Solve each equation.**

1. 
2. 
3. **Solve.** The original price of a coat is $110. Which coupon is a better deal?

**\* Take $20 off any item**

**\* 40% off any purchase**

**Solve the inequality. Graph the solution set.**

1. 

****

1. **Graph the line by plotting the intercepts.**

****

x-intercept: ( , )

y-intercept: ( , )

1. Find the slope of a line passing through and . Use the slope formula: 
2. Write an equation of a line with Use the Slope-Intercept form: 
3. Write an equation of a line that passes through the point and has slope 2. Use the Point-Slope form: 
4. Write an equation of a line passing through and.

**Solve the system of linear equations by graphing.**

1. ****

**Solve the system of linear equations. Use the Elimination-by-Addition method.**

1. ****

**Solve the system of linear equations. Use the Substitution method.**

1. ****
2. The sum of two numbers is -15, their difference is 7. Find the numbers.

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1. **Graph the inequality. Shade the solution set.**

**Simplify.**

1. 

**Simplify. Express the answer with all positive exponents.**

1. 