

## Math 127: Module A Guidelines and Homework

Only Scientific Calculators (non-graphing) may be used on the Module Exams.

Please do the sections in the order given.

Unless otherwise instructed, do the Instruct section (take notes!) then proceed to Certify.

If you're unable to Certify then proceed to Practice. Practice as much as you need to in order to build your knowledge and skill enough to complete the Certify.

**You MUST certify in all sections listed and you MUST do all the homework before taking the Module Exam.**

On sections marked "**Review**" you may proceed directly to Certify. On these sections, do Instruct and Practice only as needed to complete the Certify.

Computer Lesson	Guidelines (for work on the computer)	Homework (work done out of the book)
1.4c	<b>Absolute Value Equations:</b> Do Instruct, Practice, Certify	1.4: page 50: 71 – 87 odd
1.5b	<b>Solving Formulas:</b>  Do Instruct, Practice, Certify	1.5: page 57: 21 – 49 eoo ( <b>every other odd</b> ) Additional assignment: (example problem and answers given below) On problem 51, solve for R instead of P On problem 53, solve for n instead of R On problem 55, solve for a instead of r
1.7b	<b>Absolute Value Inequalities:</b>  Do Instruct, Practice, Certify	1.7: page 86: 75 – 95 odd
2.2	<b>Review: Graphing Line Equations</b> Do Instruct (as needed), Practice (as needed), Certify	2.1: page 116: 57, 59 <b>Note:</b> You do NOT have to certify in lesson 2.1! 2.2: page 129: 25, 29, 31, 33, 37, 49, 51
2.3a,b	<b>Review: Finding Line Equations</b> Do Instruct (as needed), Practice (as needed), Certify	2.3: page 141: 7, 9, 11, 15, 17, 23, 33, 35, 37, 41
3.1b	<b>Review: Systems of Two-Variable Equations: Solving by Substitution</b> Do Instruct (as needed), Practice (as needed), Certify	3.1: page 202: 15, 19 Solve the following problems using <b>substitution</b> : 25, 27, 29
3.3	<b>Systems of Three-Variable Equations: Gaussian Elimination Method</b> Do Instruct, Practice, Certify	3.3: page 220: 3, 5, 13  <b>Applications:</b> page 221: 21, 23, 27 For help with #23, see the example on page 218.
3.7	<b>Systems of Linear Inequalities</b> Do Instruct, Practice, Certify	3.7: page 261: 1, 7, 11, 21, 23
4.1a	<b>Review: Exponents</b>	4.1: page 292: 1, 3, 5, 11, 23, 31, 35, 37, 41, 47
4.1b	<b>Review: Negative Exponents</b>	4.1: page 293: 53, 57, 61, 63, 65, 67, 71, 73, 77, 79
4.3a	<b>Review: Multiplication of Polynomials</b>	4.3: page 312: 19 – 33 odd; 47, 49, 51, 71

<b>Module A Exam Review</b>	Note: The Module Exam is a regular paper-and-pencil exam, taken offline.	<p><b>Review:</b> page 50: 76 (no solution), 79, 89;  page 86: 82 (all real numbers), 85  page 102: 33, 34, 44  page 184: 11 – 14 ALL  page 187: 42, 43, 44, 53, 54, 62, 66, 68, 71  page 274: 2, 3, 8, 9, 11, 18, 19  page 292: 21 - 29 odd, 57, 59</p> <p>Note: This is just a sampling of the type of problems that may appear on the exam. Be sure to study ALL types of problems you've done in this module, such as 3.3 application problems, etc and the more challenging formula problems from section 1.4.</p>
-----------------------------	--	---

<p><b>Example problem for section 1.5:</b> Solve the formula for t: <math>A = \frac{P + rt}{T + t}</math></p> <p>Step 1: Clear fractions by cross-multiplying <math>A(T + t) = P + rt</math></p> <p>Step 2: Distribute to eliminate parentheses: <math>AT + At = P + rt</math></p> <p>Step 3: Move all "t" terms to the left, and all "non-t" terms to the right: <math>At - rt = P - AT</math></p> <p>Step 4: Factor out the "t": <math>t(A - r) = P - AT</math></p> <p>Step 5: Divide out the factor next to t: <math>\frac{t(A - r)}{A - r} = \frac{P - AT}{A - r}</math></p> <p>Step 6: Simplify: <math>t = \frac{P - AT}{A - r}</math></p>	<p><b>Answers to 1.5 "Additional assignment" problems:</b></p> <p>51: <math>R = \frac{Wr}{W - 2P}</math></p> <p>53: <math>n = \frac{-IR}{Ir - E}</math> or <math>n = \frac{IR}{E - Ir}</math></p> <p>55: <math>a = \frac{rL - Sb}{1 - S}</math></p>
---	---