**STUDY GUIDE FOR TEST I**  
**MATH 1111**

There will be 10 questions worth 10-points each. There will also be a 10-point bonus question.

<table>
<thead>
<tr>
<th>Question</th>
<th>Objective</th>
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</table>
| 1        | Solve a linear equation.  
           [Section 1.1, p. 90, #17-48;  
           Review Exercises, p. 145, #1, 2, 3, 4, 7] |
| 2        | Solve a formula for a specific variable.  
           [Section 1.1, p. 91, #79-84] |
| 3        | Solve a quadratic equation by factoring and using the Zero Product Property  
           [Section 1.2, p. 101, # 11-30;  
           Review Exercises, p. 145, #6, 9] |
| 4        | Solve a quadratic equation by using the Quadratic Formula.  
           [Section 1.2, pp. 101-102, #43-62;  
           Review Exercises, p. 145, #5, 10, 13, 40-43] |
| 5        | Use the discriminant to determine the number and character of real solutions to a quadratic equation.  
           [Section 1.2, p. 102, # 73-78] |
| 6        | Solve an equation involving a radical.  
           [Section 1.4, pp. 117-118, #9-40;  
           Review Exercises, p. 145, #11, 12, 15, 16, 17, 18, 19] |
| 7        | Solve an equation by factoring.  
           [Section 1.4, p. 118, #75-88;  
           Review Exercises, p. 145, #14, 20] |
| 8        | Solve a linear inequality.  
           [Section 1.5, p. 128, #55-84;  
           Review Exercises, p. 145, #28, 29, 30] |
| 9        | Solve an absolute value equation.  
           [Section 1.6, p. 133, #9-32;  
           Review Exercises, p. 145, #24, 25] |
| 10       | Solve an absolute value inequality.  
           [Section 1.6, p. 133, #37-64;  
           Review Exercises, p. 145, #31-34] |