## **Lesson 7.4: Equations and Inequalities**

Complete the *Practice* below. When you have completed all the questions for *Lesson 7.4 Practice* – *V* with your best work, mark your work by first comparing your answers to the solutions provided in *Appendix 2: Solutions*. Then, apply the rubric found at the beginning of the *Workbook*.



## Practice - V

1. Solve  $x^2 - 9x + 18 \ge 0$  using sign analysis. Represent the solution set symbolically and on a number line.

2. The 'case analysis' method for solving a quadratic inequality is shown on p. 479 of *Pre-Calculus 11*.

a. Explain the case analysis strategy.					

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b.	Describe how the case analysis strategy is similar to the sign analysis strategy?				

c. Solve x(x+1) < 0 using the case analysis strategy.

## Lesson 7.4: Quadratic Inequalities in One Variable

## Workbook 7B

3. A golfer makes a chip shot that travels 40 feet over flat terrain before landing. If the ball follows a parabolic path, and the maximum height reached by the ball is 33 feet, during what interval is the ball above 25 feet?



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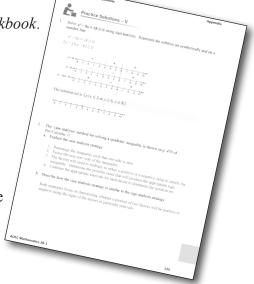
Mark your work for Lesson 7.4 Practice – V using the solutions provided in Appendix 2: Solutions.

Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the Workbook.

My self-assessed mark on Lesson 7.4 Practice – V is \_\_\_\_\_

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.



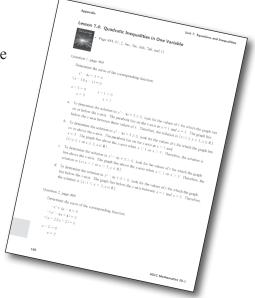
Question Number	Got it!	Almost there	Need to retry or ask for help.	Similar questions from Pre-Calculus 11
1				p.485 #5ac
2				p.485 #6ab
3				p.485 #11

You may proceed to Explore Your Understanding Assignment on the next page of this Workbook.

**Note:** Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Pre-Calculus 11*.

• Page 484, #1, 2, 4ac, 5ac, 6ab, 7ab, and 11

Check your work in Enhance Your Understanding.



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