

Lesson 2.4: Quadratic Equations

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.4 Practice – VII* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



Practice – VII

1. Solve the following equations using the quadratic formula, if possible.

- a. $x^2 - 17x - 9 = 0$

- b. $4s^2 = -s - 14$

c. $0 = x^2 - 7x + 7$

2. Using the discriminant, determine the nature of the roots of each equation.

a. $4x^2 - 28x = -49$

b. $s^2 + 4 = -3s$

c. $z^2 + 3z = 5$

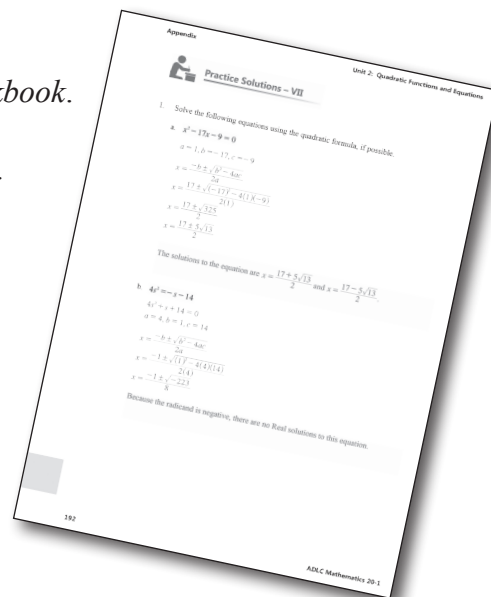
3. June sells popcorn at the Nanton Candy Store. She sells each bag for \$2.00. At this price, she sells 60 bags per day. She did an experiment for a month, and found that every \$0.25 increase in price resulted in two fewer sales per day. At what price(s) can June sell the popcorn in order to earn \$150.00 per day?

Mark your work for *Lesson 2.4 Practice – VII* using the solutions provided in the *Appendix*. 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 2.4 Practice – VII* 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 <i>Pre-Calculus 11</i>
1				p. 232 #18 p. 233 #30 p. 254 #3ace, 4bdf, 5ace, 6
2				p. 254 #1
3				p. 254 #8, 9, 10, 11, 14, 15

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 215 #3, and 4
- Page 230 #7ace, 8bdf, 9ace, and 10bdf
- Page 240 #4c, 5ace, 6bdf, and 7ace
- Page 254 #1, 3ace, 4bdf, 5ace, 6, 8, 9, 10, 11, 14, and 15

Check your work in *Enhance Your Understanding*.

