

Lesson 2.3: Quadratic Functions Expressed in Standard Form

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.3 Practice – V* 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*.

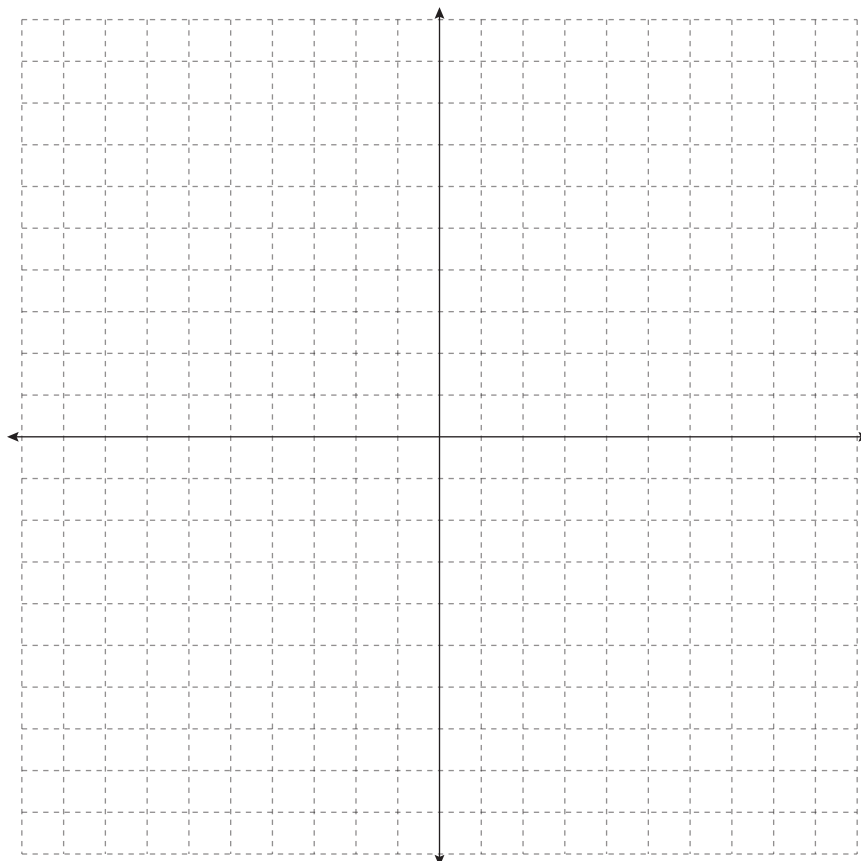


Practice – V

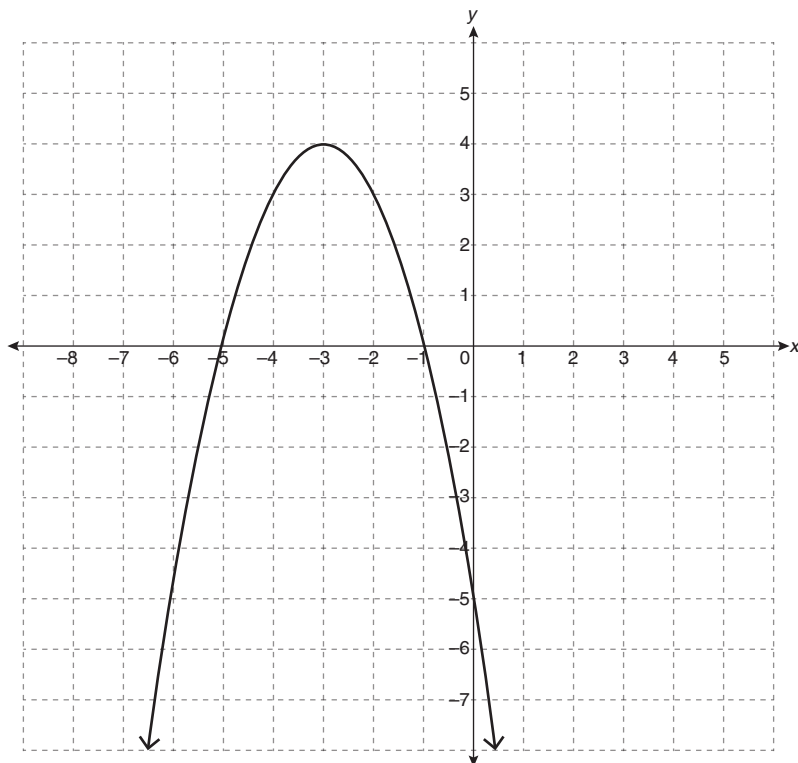
- Summarize what information about the graph can be determined from each form of a quadratic function in the table below.

Form	Information that can be determined	How is the information determined?
Vertex Form		
Standard Form		

2. Sketch the graph of the quadratic function $y = 3x^2 + 6x - 9$. Be sure to label the axes, provide an appropriate scale, and plot at least five points, including the vertex, x -intercepts, and y -intercept. Show all work.



3. Write the equation, in standard form, of the quadratic function represented by the graph below.



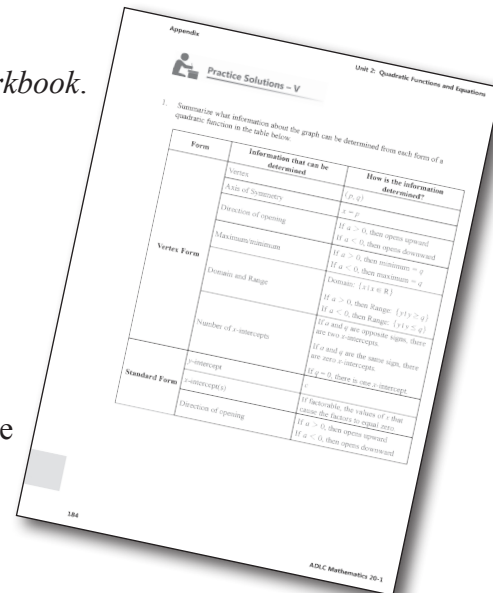
4. Determine the equation of a quadratic function with zeros of 5 and 1. The graph of the function also passes through the point $(2, -9)$. Write the equation of the function in standard form.

Mark your work for *Lesson 2.3 Practice – V* 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 2.3 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 <i>Pre-Calculus 11</i>
1				p. 174 #2 p. 199 #11
2				p. 174 #4ac, 10
3				p. 175 #7 p. 198 #4

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 174, #2, 4ac, 7, 9, 10, 11, and 12
- Page 193, #1ac, 2bd, 3, 4, 8, 9, and 12bc
- Page 198, #4, and 11
- Page 232, #18, and 30

Check your work in *Enhance Your Understanding*.

