Lesson 6.1: Absolute Value and Absolute Value Functions

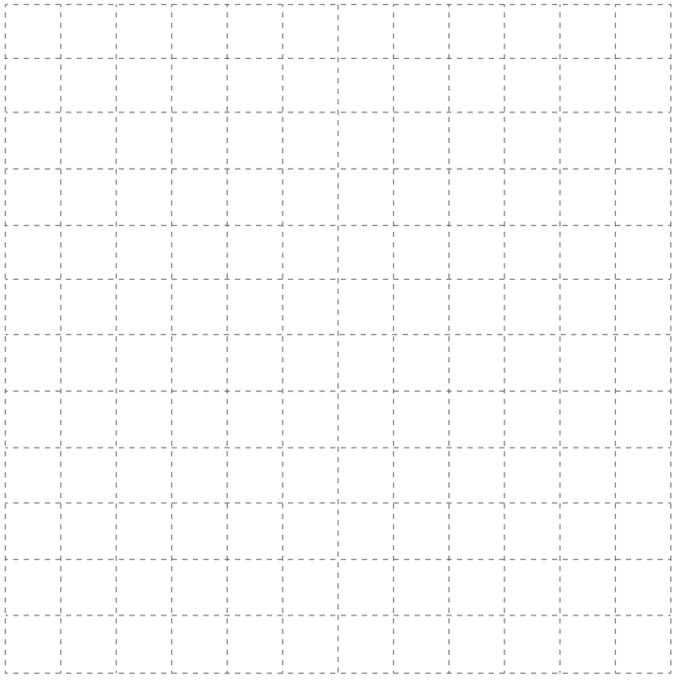
Complete the *Practice* below. When you have completed all the questions for *Lesson 6.2 Practice – I* with your best work, mark your work by first comparing your answers to the solutions provided in *Appendix 2: Solutions*. Then, apply the rubric found at the beginning of the *Workbook*.

Practice – III

1. Sketch a graph of two functions that could be used to solve an absolute value equation with

   a. no solution

b. one solution



c. two solutions

d. three solutions

e. four solutions

f. an infinite number of solutions

2. Solve each of the following equations graphically. Verify the solutions by substitution.

a. $\left|\frac{1}{2}x - 4\right| = \frac{1}{6}x$

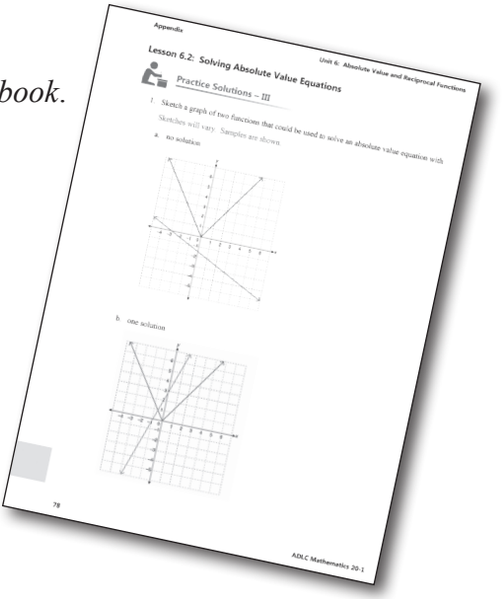
b. $|-2x^2 - 6x + 4| = 4$

c. $-x^2 + 4x + 16 = |x - 4|$

Mark your work for *Lesson 6.2 Practice – III* 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 6.2 Practice – III* is _____.


Appendix

Unit 6: Absolute Value and Reciprocal Functions

Lesson 6.2: Solving Absolute Value Equations

Practice Solutions – III

1. Sketch a graph of two functions that could be used to solve an absolute value equation with

Sketches will vary. Samples are shown.

a. no solution

b. one solution

78

ADLC Mathematics 20-1

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.391 #20
2				p.389 #2ab

Please return to *Lesson 6.2* to continue your work in *Unit 6: Absolute Value and Reciprocal Functions*.