

Lesson 3.2: Operations with Radicals

Complete the *Practice* below. When you have completed all the questions for *Lesson 3.2 Practice – III* 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 – III

1. Simplify the following expressions by rationalizing the denominator.

a. $\frac{2}{\sqrt{2}}$

b. $\frac{6}{\sqrt[3]{4u}}$

c. $\frac{\sqrt{2}}{5\sqrt{7}}$

2. Simplify the following expressions by rationalizing the denominator.

a. $\frac{3}{\sqrt{2}-5}$

b. $\frac{7\sqrt{2}}{\sqrt{5} + \sqrt{6}}$

3. Identify and fix the error(s) in Portia's simplification of the expression $\frac{4\sqrt{5} - \sqrt{2}}{6 - \sqrt{15}}$.

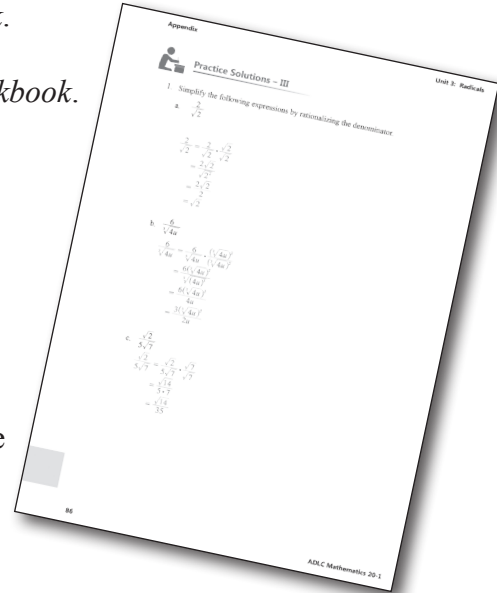
$$\begin{aligned}\frac{4\sqrt{5} - \sqrt{2}}{6 - \sqrt{15}} \cdot \frac{6 - \sqrt{15}}{6 - \sqrt{15}} &= \frac{24\sqrt{5} + \sqrt{30}}{36 + 15} \\ &= \frac{24\sqrt{5} + \sqrt{30}}{51}\end{aligned}$$

Mark your work for *Lesson 3.2 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 3.2 Practice – III* 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. 290 #8
2				p. 290 #9ac, 10
3				p. 290 #13

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 279, #8ac, 9bcd, 10ac, and 19
- Page 289, #1ace, 2ac, 3cd, 4ace, 5bd, 6, 7, 8, 9ac, 10, and 13

Check your work in *Enhance Your Understanding*.

