

Lesson 5.3: Rational Equations

Complete the *Practice* below. When you have completed all the questions for *Lesson 5.3*

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. The sum of two numbers is 30. The sum of their reciprocals is $\frac{3}{20}$. Determine the two numbers.

2. Jill is filling a water trough for her horse. Using pump A, the trough is filled up in half an hour. Using pump B, the trough is filled up in three quarters of an hour. How long does it take to fill the trough using both pumps?

3. Quentin refurbishes old furniture. He has just purchased a pallet of old dining room chairs at a cost of \$100.00 total. Quentin has \$100.00 worth of supplies to refurbish the chairs. His mother has requested four refurbished chairs as a gift for mother's day. Quentin will earn \$1 000.00 after selling the lot of chairs. Quentin wants to profit \$50.00 per chair. How many chairs must he refurbish in order to achieve his goal?

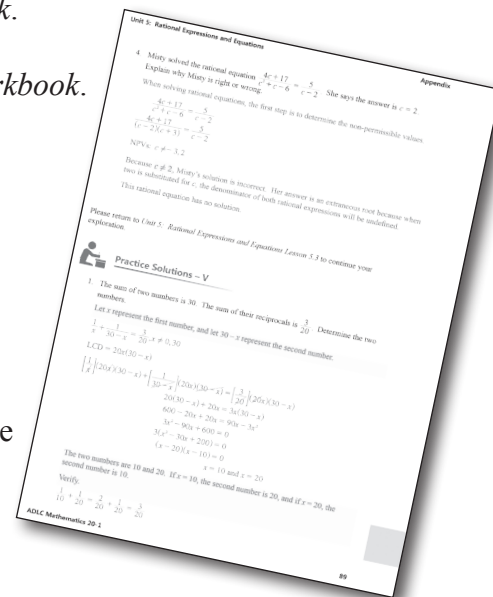
4. A plane flying from Miami, Florida to Calgary, Alberta experienced headwinds, and took 1 hour longer than when it flew with tailwinds on the return flight. The distance between the two airports is 4 000 km, and the average headwind/tailwind is 95 km/h. What is the speed of the plane in calm air?

Mark your work for *Lesson 5.3 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 5.3 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. 348 #8, 9, 11
2				p. 349 #12, 13, 15
3				p. 349 #10
4				p. 349 #14, 16, 17

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 348 #2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17

Check your work in *Enhance Your Understanding*.

