Lesson 5.5 Practice: Solving Rational Equations

School Launch · Algebra II · Unit 5: Rational Expressions and Functions · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve and check for extraneous solutions: $\frac{5}{x+3} + 1 = \frac{12}{7}$. EASY

2. Solve and check for extraneous solutions: $\frac{6}{x+2} + 1 = \frac{13}{7}$. EASY

3. Solve and check for extraneous solutions: $\frac{5}{x+5} + 1 = \frac{9}{4}$. EASY

4. Solve and check for extraneous solutions: $\frac{5}{x-4} + 1 = \frac{1}{6}$. MEDIUM

5. Solve and check for extraneous solutions: $\frac{2}{x+1} + 1 = \frac{7}{5}$. MEDIUM

6. Solve and check for extraneous solutions: $\frac{6}{x-1} + 1 = -\frac{1}{5}$. MEDIUM

7. Solve and check for extraneous solutions: $\frac{1}{x-5} + 1 = 2$. MEDIUM

8. Solve and check for extraneous solutions: $\frac{3}{x-5} + 1 = \frac{2}{3}$. HARD

9. Solve and check for extraneous solutions: $\frac{4}{x-1} + 1 = 0$. HARD

10. Solve and check for extraneous solutions: $\frac{4}{x+4} + 1 = \frac{7}{5}$. HARD