Lesson 12.5 Practice: Solving Rational Equations

School Launch · Algebra I · Unit 12: Rational Expressions: An Introduction · Worksheet A

No calculator

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: $\frac{5}{x} = 5$. EASY

2. Solve: $\frac{6}{x} = -3$. EASY

3. Solve: $\frac{5}{x} = -\frac{5}{2}$. EASY

4. Solve and check for excluded values: $\frac{5}{x-3} + 1 = \frac{3}{8}$.

MEDIUM

5. Solve and check for excluded values: $\frac{5}{x-3} + 1 = -4$

. MEDIUM

6. Solve and check for excluded values: $\frac{4}{x-4} + 1 = \frac{3}{5}$.

MEDIUM

7. Solve and check for excluded values: $\frac{5}{x-6} + 1 = \frac{6}{11}$.

MEDIUM

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

. HARD

9. Solve and check for excluded values: $\frac{3}{x-3} + 1 = \frac{7}{10}$.

HARD

10. Solve and check for excluded values: $\frac{5}{x-5} + 1 = \frac{3}{8}$.

HARD