

Algebra II Exam C Review One

key

Solve each equation. Be sure to check your solutions!

1. $\frac{2}{7} + \frac{5}{x} = \frac{45}{7x}$ $x = 5$

$x \neq 0$

2. $\frac{2}{x-1} = \frac{5}{x}$

$x \neq 0, 1$

$x = \frac{5}{3}$

3. $\frac{14}{x} = 9 - x$

$x = 2, 7$

$x \neq 0$

4. $\frac{x+5}{x-1} + \frac{x}{2} = \frac{12}{2x-2}$

$x \neq 1$

$x = -2$

5. $\frac{2}{x-3} + \frac{5}{x+3} = \frac{7}{x^2-9}$

$x \neq 3, -3$

$x = \frac{14}{7}$

Simplify each expression. Assume all variables are positive.

6. $\sqrt{x^2 - 12x + 36}$ $x - 6$

7. $\sqrt{32x^3}$ $4x\sqrt{2}$

Write in radical form and simplify.

8. $16^{\frac{5}{4}}$ Radical form: $\sqrt[4]{16^5}$ Simplified: 32

Write using rational exponents. Then simplify.

9. $(\sqrt[3]{-1000})^2$ Rational exponents: $(-1000)^{\frac{2}{3}}$ Simplified: 100

Simplify.

10. $\sqrt{m} + \sqrt{m^3}$ $(1+m)\sqrt{m}$

11. $2^{\frac{1}{3}} - 3\sqrt[3]{2}$ $-2\sqrt[3]{2}$

Algebra Semester 2 Answer Key

Rachel S Tattersall



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