

Section 1.5: Solving Other Types of Equations

Key Topics: factoring, rational equations, radical equations, equations with square roots, equations with rational exponents, quadratic form equations

Solving Equations by Factoring

- Step 1 _____
- Step 2 _____
- Step 3 _____
- Step 4 _____

Solving a Rational Equation

- Step 1 _____
- Step 2 _____
- Step 3 _____
- Step 4 _____
- Step 5 _____

Solving Equations Containing Square Roots

Step 1 _____

Step 2 _____

Step 3 _____

Step 4 _____

Step 5 _____

Solving Equations of the Form $u^{m/n} = k$

Let m and n be _____ integers, _____ a _____ number, and $\frac{m}{n}$ in _____ terms. Then if

m is _____	m is _____
and $u^{m/n} = k,$	and $u^{m/n} = k,$
$u =$ _____	$u =$ _____

When m is even we are taking an even root.

Some equations can be recognized as _____ in form by _____ a recurrent expression by a variable _____ the resulting quadratic equation, _____ the variable by the recurrent expression, and solving the equations that result.

Compare/contrast these methods. How are they similar? What are some key differences?