Learning Targets

## Learning Targets

### Complex Numbers and Rational Exponents

### Lesson 1: Properties of Exponents

* I can evaluate expressions with integer exponents.

### Lesson 2: Square Roots and Cube Roots

* I can calculate square and cube roots.

### Lesson 3: Exponents That Are Unit Fractions

* I can write square and cube roots as exponents.

### Lesson 4: Positive Rational Exponents

* I can interpret exponents that are fractions.

### Lesson 5: Negative Rational Exponents

* I can interpret exponents that are negative fractions.

### Lesson 6: Squares and Square Roots

* I understand that the square root symbol means the positive square root.

### Lesson 7: Inequivalent Equations

* I can solve equations by squaring or finding square roots.

### Lesson 8: Cubes and Cube Roots

* I can solve equations by cubing or finding cube roots.

### Lesson 9: Solving Radical Equations

* I can solve equations with radicals in them.

### Lesson 10: A New Kind of Number

* I can represent $\sqrt{-1}$ and multiples of it.

### Lesson 11: Introducing the Number $i$

* I can use $i$ to solve equations.

### Lesson 12: Arithmetic with Complex Numbers

* I can add complex numbers and calculate powers of imaginary numbers.

### Lesson 13: Multiplying Complex Numbers

* I can multiply complex numbers.

### Lesson 14: More Arithmetic with Complex Numbers

* I can do arithmetic with complex numbers.

### Lesson 15: Working Backwards

* I can find real and imaginary parts of complex numbers if I know enough about the numbers and their product.

### Lesson 16: Solving Quadratics

* I can solve quadratic equations by completing the square or by using the quadratic formula.

### Lesson 17: Completing the Square and Complex Solutions

* I can find complex solutions to quadratic equations by completing the square.

### Lesson 18: The Quadratic Formula and Complex Solutions

* I can find complex solutions to quadratic equations by using the quadratic formula.

### Lesson 19: Real and Non-Real Solutions

* I can find complex solutions to quadratic equations.



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