Additional Problems: Complex Numbers

**The Existence of Imaginary Numbers**

**Some problems include the solution. Please remove before sharing with students.**

1. What are the types of solutions for x in the equation ?

imaginary

rational

irrational

real

Solution: irrational

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Solution: irrational

1. What type of number is ?

real

complex

imaginary

irrational

Solution: complex

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real

complex

imaginary

irrational

Solution: imaginary

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real

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Solution: irrational

1. Which of the following re-expresses the negative square root  as a complex number in the standard form ?

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1. Which is the solution to the equation , re-expressed as a complex number in the standard form ?

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1. Which is the solution to the equation , re-expressed as a complex number in the standard form ?
2. Which is the solution to the equation , re-expressed as a complex number in the standard form ?

Solution: