Justified True or False - Math

Decide if each statement below is true or false and provide your reasoning.

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| **Statement** | **T** | **F** | **Explain Your Reasoning** |
| Quadratic equations always have 2 real solutions. |  |  |  |
| When solving a quadratic equation, the quadratic formula is a method that will always work. |  |  |  |
| The solutions of a quadratic equation are also known as roots, zeros, and x-intercepts. |  |  |  |

# Student Responses

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| **Statement** | **T** | **F** | **Explain Your Reasoning** |
| Quadratic equations always have 2 real solutions. |  | X | The degree of a quadratic is 2, so there are always 2 solutions. |
| When solving a quadratic equation, the quadratic formula is a method that will always work. | X |  | The quadratic formula always works unlike factoring or completing the square. |
| The solutions of a quadratic equation are also known as roots, zeros, solutions, and x-intercepts. | X |  | Those all mean the same thing. They are also called vertices. |

# Reflection

What does this information tell you?

What could you do with this information?