

Example of Extended Response Item

Math—Advanced Algebra

Advanced Algebra, Standards A.REI.2; A.REI.4; A.APR.6, A.REI.1; DOK 3

Sreeja and Brandon solved the equation shown in different ways.

$$\frac{x^2 - 3x + 2}{x - 1} = 2x$$

Part A

Before solving the equation, what solution could Sreeja and Brandon identify as extraneous? Explain your reasoning.

Part B

Sreeja solved the equation by creating the proportion $\frac{x^2 - 3x + 2}{x - 1} = \frac{2x}{1}$.

Demonstrate how Sreeja used the proportion to solve the equation. In each step, explain the properties she used to determine the solution.

Part C

Brandon solved the equation by simplifying the left side of the equation first. Demonstrate how Brandon simplified the expression on the left and then solved the equation. In each step, explain the properties he used to determine the solution.

Be sure to complete ALL parts of the task.

Write your answer and show your work on the paper provided.

Do NOT type your answer in the text box below.



Extended Response Algebra

JA Banks



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