Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formative Solving Logarithmic Equations Period\_\_\_\_\_

1. ALGEBRAICALLY determine the solutions to the given logarithmic equations
2. CONFIRM answers using a graphing calculator
3. Complete the related table

|  |  |
| --- | --- |
| Related Graph  Shape  Description automatically generated | Related Equation |

Did you have any extraneous solutions? \_\_\_\_\_\_\_ If so what was it?\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Related Functions | State the coordinate A  Exact  Approximate | State the coordinate B  Exact  Approximate | State the coordinate C  Exact  Approximate | State the Domain of the Logarithmic Function  State the vertical asymptote |

Solve each of the following logarithmic equations

|  |  |
| --- | --- |
| Did you have any extraneous solutions? \_\_\_\_\_\_\_  If so what was it?\_\_\_\_\_\_\_\_\_ | Did you have any extraneous solutions? \_\_\_\_\_\_\_  If so what was it?\_\_\_\_\_\_\_\_\_ |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Related Functions  State the Domain of the Logarithmic Function  State the vertical asymptote | State the coordinate A  Exact  Approximate | State the coordinate B  Exact  Approximate | State the coordinate C  Exact  Approximate | State the coordinate D  Exact  Approximate |

Solve each of the following logarithmic equations

|  |  |
| --- | --- |
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