

Name _____ Formative Solving Logarithmic Equations Period _____

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

$$\log_3(x + 25) - \log_3(x - 1) = 3$$

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

Name _____ Formative Solving Logarithmic Equations Period _____

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

$$\log_2(x + 2) - \log_2(x - 3) = 2$$

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

1. ALGEBRAICALLY determine the solutions to the given logarithmic equations

- CONFIRM answers using a graphing calculator

$$\log(x) + \log(x - 1) = \log(4x)$$

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

- ALGEBRAICALLY determine the solutions to the given non linear systems
- CONFIRM answers using a graphing calculator

$$\log(x) + \log(x - 5) = \log(7x)$$

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

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

$$\log_4(x + 20) - \log_4(x - 4) = 2$$

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

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

$$\log_5(x + 5) - \log_5(x - 4) = 1$$

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

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

$$\log(x) + \log(x - 12) = \log(5x)$$

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

1. ALGEBRAICALLY determine the solutions to the given non linear systems
2. CONFIRM answers using a graphing calculator

$$\log(x) + \log(x - 10) = \log(8x)$$

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