

# “Ecuaciones logarítmicas”

NOMBRE: \_\_\_\_\_.

- 1.** Resuelve las siguientes ecuaciones logarítmicas y marca la opción correcta.

$$\log(2) + \log(x + 3) = \log(x + 5)$$

$$x_1 =$$

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$$\log(3) + \log(x - 1) = \log(2) + \log(x + 1)$$

$$x_1 =$$

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$$\log(x^2 - 9) - \log(x - 3) = \log(3) + \log(2x)$$

$$x_1 =$$

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$$\log(15 - 2x) = 2 \log(x)$$

$$x_1 =$$

$$; x_2 =$$

$$\log(2x + 5) + \log(2x - 5) = 2\log(x) + \log(3)$$

$$x_1 = \quad ; x_2 =$$

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

$$x_1 = \quad ; x_2 =$$

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$$\log(\sqrt{x^2 - 3x + 2}) = \log(x)$$

$$x_1 =$$

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$$\log(6x) - \log(\sqrt{6x}) = \log(\sqrt{x^2 + 9})$$

$$x_1 =$$

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$$\log(x^2 + 3x + 2) - \log(x + 1) = \log(1 - x)$$

$$x_1 = \quad ; x_2 =$$



$$\log_2(5x^2 + 15x + 10) - \log_2(x + 2) = 2$$

$$x_1 = \quad ; x_2 =$$

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$$2 \log(3x) - \log(3) = \log(2x^2 + 1)$$

$$x_1 = \quad ; x_2 =$$

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$$\log(\sqrt{x}) + \log(\sqrt[6]{x}) = \log(\sqrt[3]{10x - 25})$$

$$x_1 =$$

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$$\log_4(x + 1) = \log_2(x - 1)$$

$$x_1 = \quad ; x_2 =$$

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$$\log(\sqrt{x}) - \log(x^2) = \log\left(\frac{2}{x}\right)$$

$$x_1 =$$