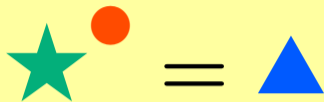


指数を使った書き方、対数を使った書き方



A yellow rounded rectangle containing a green star, a red circle, an equals sign, and a blue triangle. This represents the equation $\text{star}^{\text{circle}} = \text{triangle}$.

と



A light blue rounded rectangle containing the text "log", a green star, a blue triangle, an equals sign, and a red circle. This represents the equation $\log_{\text{star}} \text{triangle} = \text{circle}$.

は同じ

対数方程式 (その 1)

$$\log_7 x = 2$$

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$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

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$$7^2 = x$$

対数方程式 (その 1)

$$\log_7 x = 2$$

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$$7^2 = x$$

$$\boxed{\text{答}} \quad 49 = x$$

対数方程式 (その 2)

$$\log_4 2x = 2$$

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$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

対数方程式 (その 2)

$$\log_4 2x = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$4^2 = 2x$$

対数方程式 (その 2)

$$\log_4 2x = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$4^2 = 2x$$

$$16 = 2x$$

対数方程式 (その 2)

$$\log_4 2x = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$4^2 = 2x$$

$$16 = 2x$$

$$\frac{16}{2} = \frac{2x}{2}$$

対数方程式 (その 2)

$$\log_4 2x = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$4^2 = 2x$$

$$16 = 2x$$

$$\frac{16}{2} = \frac{2x}{2}$$

$$\boxed{\text{答}} \quad 8 = x$$

対数方程式 (その3)

$$\log_5(4x + 1) = 2$$

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対数方程式 (その3)

$$\log_5(4x + 1) = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$5^2 = 4x + 1$$

対数方程式 (その3)

$$\log_5(4x + 1) = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$5^2 = 4x + 1$$

$$25 = 4x + 1$$

対数方程式 (その3)

$$\log_5(4x + 1) = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$5^2 = 4x + 1$$

$$25 = 4x + 1$$

$$25 - 1 = 4x$$

対数方程式 (その3)

$$\log_5(4x + 1) = 2$$

$$\star^{\circ} = \blacktriangle \iff \log_{\star} \blacktriangle = \circ$$

$$5^2 = 4x + 1$$

$$25 = 4x + 1$$

$$25 - 1 = 4x$$

$$24 = 4x$$

対数方程式 (その 3)

$$24 = 4x$$

対数方程式 (その 3)

$$24 = 4x$$

$$\frac{24}{4} = \frac{4x}{4}$$

対数方程式 (その 3)

$$24 = 4x$$

$$\frac{24}{4} = \frac{4x}{4}$$

$$\boxed{\text{答}} \quad 6 = x$$