

Logarithmic Equation

Common Logarithm: S2

Solve each logarithmic equation. Round the answer to two decimal places.

1) $\log_4 7x = 2.3$

x =

2) $2 \log_5 (x + 6) = 0.8$

x =

3) $\log_7 (x + 5.3) = 0.$

x =

5) $\log_2 \left(\frac{x}{7}\right) = 2.4$

x =

7) $\log_7 (x - 3.7) = 0.$

x =

9) $\log_5 (x - 2) = 0.7$

x =

10) $6 \log_2 (x + 3.5) = 4.8$

x =

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Answer key**Logarithmic Equation**

Common Logarithm: S2

Solve each logarithmic equation. Round the answer to two decimal places.

1) $\log_4 7x = 2.3$

x = **3.46**

2) $2 \log_5 (x + 6) = 0.8$

x = **-4.1**

3) $\log_7 (x + 5.3) = 0.$

x = **-3.82**

5) $\log_2 \left(\frac{x}{7}\right) = 2.4$

x = **36.95**

7) $\log_7 (x - 3.7) = 0.$

x = **6.67**

9) $\log_5 (x - 2) = 0.7$

x = **5.09**

10) $6 \log_2 (x + 3.5) = 4.8$

x = **-1.76**

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