

**Logarithmic Equation**

Common Logarithm: S3

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

1)  $\log_2(x - 5) = 0.24$

x = 

2)  $\log_3 2x = 1.8$

x = 

3)  $\log_8(x - 1) = 0.7$

x = 

5)  $\log_8\left(\frac{4.2}{x}\right) = 2$

x = 

7)  $\log_9(x - 7) = 0.2$

x = 

9)  $\log_5(x - 2) = 0.1$

x = 

10)  $3 \log_4(x + 8) = 0.9$

x = 

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**Answer key****Logarithmic Equation**

Common Logarithm: S3

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

1)  $\log_2(x - 5) = 0.24$

x = **6.18**

2)  $\log_3 2x = 1.8$

x = **3.61**

3)  $\log_8(x - 1) = 0.7$

x = **5.29**

5)  $\log_8\left(\frac{4.2}{x}\right) = 2$

x = **0.07**

7)  $\log_9(x - 7) = 0.2$

x = **8.55**

10)  $3 \log_4(x + 8) = 0.9$

x = **-6.48**

9)  $\log_5(x - 2) = 0.1$

x = **3.17**

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