

# Logarithmic Equations

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Solve each logarithmic equation.

1)  $\log_5 (x+5) - \log_5 2 = \log_5 50$

x = \_\_\_\_\_

2)  $3 \log_8 x + \log_8 4 = \log_8 256$

x = \_\_\_\_\_

3)  $\log_2 x$

x

5)  $\log_2 x$

x

7)  $\log_2 x$

# Preview

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x = \_\_\_\_\_

x = \_\_\_\_\_

9)  $\log_3 (x-8) = \log_3 14 + 2 \log_3 3$

x = \_\_\_\_\_

10)  $\log_2 (5+x) + \log_2 2 = 3 \log_2 2$

x = \_\_\_\_\_