



Logarithms - Solve Log Equation (Fraction Base)

1 Solve the following logarithm

$$\log_{\frac{1}{9}} \frac{1}{81} = x$$

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|---|--------|---|--------|
| A | x = 2 | B | x = 8 |
| C | x = -1 | D | x = -2 |
| E | x = -8 | F | x = 7 |

2 Solve the following logarithm

$$\log_{\frac{1}{4}} \frac{1}{64} = x$$

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|---|--------|---|--------|
| A | x = 11 | B | x = 9 |
| C | x = 6 | D | x = 3 |
| E | x = -2 | F | x = -4 |

3 Solve the following logarithm

$$\log_{\frac{1}{3}} \frac{1}{27} = x$$

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|---|--------|---|--------|
| A | x = 3 | B | x = -4 |
| C | x = -6 | D | x = 10 |
| E | x = 2 | F | x = -7 |

4 Solve the following logarithm

$$\log_{\frac{1}{10}} \frac{1}{1,000} = x$$

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|---|--------|---|--------|
| A | x = 2 | B | x = 9 |
| C | x = -5 | D | x = 8 |
| E | x = 3 | F | x = -6 |

5 Solve the following logarithm

$$\log_{\frac{1}{6}} \frac{1}{36} = x$$

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|---|--------|---|--------|
| A | x = 9 | B | x = -2 |
| C | x = 2 | D | x = -1 |
| E | x = -5 | F | x = -8 |

6 Solve the following logarithm

$$\log_{\frac{1}{6}} \frac{1}{216} = x$$

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|---|--------|---|--------|
| A | x = 1 | B | x = -1 |
| C | x = 3 | D | x = 4 |
| E | x = -4 | F | x = -5 |

7 Solve the following logarithm

$$\log_{\frac{1}{10}} \frac{1}{100} = x$$

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|---|-------|---|--------|
| A | x = 2 | B | x = -6 |
| C | x = 4 | D | x = -3 |
| E | x = 0 | F | x = -8 |

8 Solve the following logarithm

$$\log_{\frac{1}{8}} \frac{1}{64} = x$$

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|---|--------|---|--------|
| A | x = 10 | B | x = -5 |
| C | x = 3 | D | x = 1 |
| E | x = 11 | F | x = 2 |