

Solutions – Log Laws (A)

Simplify $\log(9) + \log(3)$

$\log(27)$

Simplify $\log(5) + \log(9)$

$\log(45)$

Simplify $\log(6^4)$

$4 \log(6)$

Simplify $\log(24) - \log(4)$

$\log(6)$

Simplify $\log(3^3)$

$3 \log(3)$

Simplify $\log(24) - \log(8)$

$\log(3)$

Solutions – Log Laws (B)

Simplify $\log(2) + \log(2)$

$\log(4)$

Simplify $\log(12) - \log(3)$

$\log(4)$

Simplify $\log(56) - \log(7)$

$\log(8)$

Simplify $\log(8^2)$

$2 \log(8)$

Simplify $\log(9^3)$

$3 \log(9)$

Simplify $\log(2) + \log(2)$

$\log(4)$

Solutions – Log Laws (C)

Simplify $\log(3^4)$

$$4 \log(3)$$

Simplify $\log(18) - \log(2)$

$$\log(9)$$

Simplify $\log(54) - \log(9)$

$$\log(6)$$

Simplify $\log(8) + \log(9)$

$$\log(72)$$

Simplify $\log(3^3)$

$$3 \log(3)$$

Simplify $\log(3) + \log(4)$

$$\log(12)$$

Solutions – Log Laws (D)

Simplify $\log(16) - \log(4)$

$\log(4)$

Simplify $\log(3) + \log(6)$

$\log(18)$

Simplify $\log(4^4)$

$4 \log(4)$

Simplify $\log(42) - \log(7)$

$\log(6)$

Simplify $\log(2) + \log(4)$

$\log(8)$

Simplify $\log(6^2)$

$2 \log(6)$

Solutions – Log Laws (E)

Simplify $\log(63) - \log(7)$

$\log(9)$

Simplify $\log(8) + \log(4)$

$\log(32)$

Simplify $\log(9) + \log(4)$

$\log(36)$

Simplify $\log(8^4)$

$4 \log(8)$

Simplify $\log(20) - \log(4)$

$\log(5)$

Simplify $\log(6^3)$

$3 \log(6)$

Solutions – Log Laws (F)

Simplify $\log(5^2)$

$$2 \log(5)$$

Simplify $\log(2^3)$

$$3 \log(2)$$

Simplify $\log(5) + \log(6)$

$$\log(30)$$

Simplify $\log(30) - \log(5)$

$$\log(6)$$

Simplify $\log(15) - \log(5)$

$$\log(3)$$

Simplify $\log(6) + \log(3)$

$$\log(18)$$

Solutions – Log Laws (G)

Simplify $\log(4) + \log(4)$

$\log(16)$

Simplify $\log(7^5)$

$5 \log(7)$

Simplify $\log(72) - \log(9)$

$\log(8)$

Simplify $\log(20) - \log(5)$

$\log(4)$

Simplify $\log(6^5)$

$5 \log(6)$

Simplify $\log(3) + \log(4)$

$\log(12)$

Solutions – Log Laws (H)

Simplify $\log(63) - \log(9)$

$\log(7)$

Simplify $\log(6^4)$

$4 \log(6)$

Simplify $\log(8) + \log(4)$

$\log(32)$

Simplify $\log(35) - \log(5)$

$\log(7)$

Simplify $\log(2) + \log(5)$

$\log(10)$

Simplify $\log(8^3)$

$3 \log(8)$

Solutions – Log Laws (I)

Simplify $\log(6) + \log(6)$

$\log(36)$

Simplify $\log(5^2)$

$2 \log(5)$

Simplify $\log(7^5)$

$5 \log(7)$

Simplify $\log(12) - \log(2)$

$\log(6)$

Simplify $\log(35) - \log(7)$

$\log(5)$

Simplify $\log(9) + \log(8)$

$\log(72)$

Solutions – Log Laws (J)

Simplify $\log(64) - \log(8)$

$\log(8)$

Simplify $\log(15) - \log(3)$

$\log(5)$

Simplify $\log(4^4)$

$4 \log(4)$

Simplify $\log(7^3)$

$3 \log(7)$

Simplify $\log(4) + \log(2)$

$\log(8)$

Simplify $\log(9) + \log(3)$

$\log(27)$