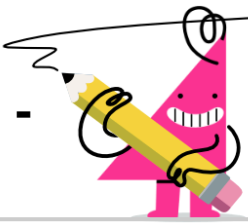
Name

Logarithm Algebra (Quotient Property) - To Quadratic (Coefficient 1)



1 $\log_7(p+4) - \log_7(p+1) = \log_7(1p)$

Use the quotient rule to simplify this to a quadratic of variable 'p'

A	B	C
$-1p^2 + 0p + 4 = 0$	$-1p^2 + 1p + 2 = 0$	$0p^2 + 2p + 2 = 0$

2 $\log_3(n+9) - \log_3(n+9) = \log_3(1n)$

Use the quotient rule to simplify this to a quadratic of variable 'n'

A	B	C
$-1n^2 - 9n + 13 = 0$	$-1n^2 - 7n + 8 = 0$	$-1n^2 - 8n + 9 = 0$

3 $\log_2(y+10) - \log_2(y+4) = \log_2(1y)$

Use the quotient rule to simplify this to a quadratic of variable 'y'

A	B	C
$-1y^2 - 3y + 7 = 0$	$-2y^2 - 5y + 14 = 0$	$-1y^2 - 3y + 10 = 0$

4 $\log_2(t+3) - \log_2(t+3) = \log_2(-1t)$

Use the quotient rule to simplify this to a quadratic of variable 't'

A	B	C
$t^2 + 5t + 6 = 0$	$t^2 + 4t + 3 = 0$	$0t^2 + 2t + 6 = 0$

5 $\log_3(t+10) - \log_3(t+10) = \log_3(1t)$

Use the quotient rule to simplify this to a quadratic of variable 't'

A	B	C
$-1t^2 - 8t + 10 = 0$	$-1t^2 - 10t + 13 = 0$	$-1t^2 - 9t + 10 = 0$

6 $\log_7(y+6) - \log_7(y+4) = \log_7(-1y)$

Use the quotient rule to simplify this to a quadratic of variable 'y'

A	B	C
$2y^2 + 6y + 5 = 0$	$y^2 + 5y + 6 = 0$	$0y^2 + 3y + 9 = 0$

7 $\log_4(z+8) - \log_4(z+8) = \log_4(-1z)$

Use the quotient rule to simplify this to a quadratic of variable 'z'

A	B	C
$z^2 + 9z + 8 = 0$	$0z^2 + 7z + 11 = 0$	$0z^2 + 10z + 6 = 0$

8 $\log_2(x+5) - \log_2(x+5) = \log_2(1x)$

Use the quotient rule to simplify this to a quadratic of variable 'x'

A	B	C
$-1x^2 - 3x + 8 = 0$	$-1x^2 - 4x + 5 = 0$	$-1x^2 - 4x + 6 = 0$