Name

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

1 $\log_9(m+10) - \log_9(m+6) = \log_9(-1m)$

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

A	B	C
$m^2+7m+10=0$	$2m^2+5m+8=0$	$m^2+8m+14=0$

2 $\log_9(x+9) - \log_9(x-7) = \log_9(1x)$

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

A	B	C
$-1x^2+8x+11=0$	$-1x^2+7x+12=0$	$-1x^2+8x+9=0$

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

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

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

4 $\log_7(x+9) - \log_7(x+9) = \log_7(1x)$

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

A	B	C
$-1x^2-8x+9=0$	$x^2-7x+10=0$	$-1x^2-9x+6=0$

5 $\log_{10}(p+2) - \log_{10}(p+2) = \log_{10}(-1p)$

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

A	B	C
$p^2+3p+2=0$	$p^2+2p+1=0$	$2p^2+2p+4=0$

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

$\log_8(m+9) - \log_8(m+5) = \log_8(-1m)$

A	$m^2+4m+13=0$
B	$m^2+6m+9=0$

7 $\log_8(y+10) - \log_8(y+10) = \log_8(-1y)$

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

A	B	C
$y^2+11y+10=0$	$y^2+13y+8=0$	$y^2+12y+7=0$

8 $\log_{10}(n+9) - \log_{10}(n+5) = \log_{10}(-1n)$

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

A	B	C
$n^2+4n+11=0$	$n^2+6n+9=0$	$n^2+6n+11=0$