Name

Logarithm Algebra (Product Property) - To Quadratic (Coefficient N)

1 $\log_8(-1n-3)+\log_8(-1n-1)=\log_8(3)$

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

A	B	C
$n^2+6n-2=0$	$2n^2+5n-1=0$	$n^2+4n+0=0$

2 $\log_{10}(-1n+3)+\log_{10}(-1n+4)=\log_{10}(2)$

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

A	B	C
$2n^2-8n+11=0$	$n^2-7n+10=0$	$2n^2-7n+10=0$

3 $\log_8(r-6)+\log_8(r-7)=\log_8(6)$

Use the product rule to simplify this to a quadratic of variable 'r'

A	B	C
$2r^2-14r+39=0$	$2r^2-11r+37=0$	$r^2-13r+36=0$

4 $\log_2(-4z-4)+\log_2(-1z-2)=\log_2(8)$

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

A	B	C
$5z^2+12z+4=0$	$3z^2+12z+2=0$	$4z^2+12z+0=0$

5 $\log_2(x+1)+\log_2(-1x+7)=\log_2(7)$

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

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

6 $\log_4(2w-1)+\log_4(2w+3)=\log_4(5)$

Use the product rule to simplify this to a quadratic of variable 'w'

A	B	C
$3w^2+6w-9=0$	$4w^2+4w-8=0$	$5w^2+6w-10=0$

7 $\log_3(-1r-3)+\log_3(-1r-2)=\log_3(6)$

Use the product rule to simplify this to a quadratic of variable 'r'

A	B	C
$r^2+5r+0=0$	$2r^2+4r+4=0$	$r^2+7r+4=0$

8 $\log_7(6r+2)+\log_7(-3r+1)=\log_7(2)$

Use the product rule to simplify this to a quadratic of variable 'r'

A	B	C
$-18r^2-2r+2=0$	$-18r^2+0r+0=0$	$-17r^2-1r+2=0$