Name

Logarithm Algebra (Quotient Property) - To Answer (Coefficient N)

1 $\log_8(-2n+6) - \log_8(6n-2) = \log_8(1n)$

Use the quotient rule to simplify this to a quadratic and solve for 'n'

A	B	C
$n = 3$	$n = 1$	$n = -8$

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

Use the quotient rule to simplify this to a quadratic and solve for 'r'

A	B	C
$r = 3$	$r = -11$	$r = -6$

3 $\log_8(-8q+10) - \log_8(-1q-1) = \log_8(-1q)$

Use the quotient rule to simplify this to a quadratic and solve for 'q'

A	B	C
$q = -17$	$q = -15$	$q = -10$

4 $\log_{10}(-5n+7) - \log_{10}(-7n+9) = \log_{10}(1n)$

Use the quotient rule to simplify this to a quadratic and solve for 'n'

A	B	C
$n = 2$	$n = 1$	$n = -6$

5 $\log_8(4x+8) - \log_8(x+5) = \log_8(-1x)$

Use the quotient rule to simplify this to a quadratic and solve for 'x'

A	B	C
$x = 2$	$x = -1$	$x = 7$

6 $\log_6(-11x-8) - \log_6(x+9) = \log_6(-1x)$

Use the quotient rule to simplify this to a quadratic and solve for 'x'

A	B	C
$x = -12$	$x = 7$	$x = -2$

7 $\log_9(-1z+5) - \log_9(-1z+5) = \log_9(1z)$

Use the quotient rule to simplify this to a quadratic and solve for 'z'

A	B	C
$z = 1$	$z = -5$	$z = 8$

8 $\log_7(6m+8) - \log_7(m-1) = \log_7(1m)$

Use the quotient rule to simplify this to a quadratic and solve for 'm'

A	B	C
$m = 17$	$m = 8$	$m = 9$