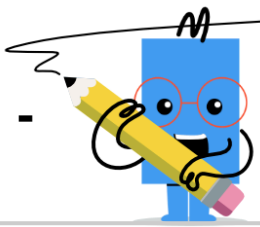
Name

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



1 $\log_2(10r+1) - \log_2(r+10) = \log_2(1r)$

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

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

2 $\log_2(7r-5) - \log_2(-1r+11) = \log_2(1r)$

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

A	B	C
$r = 5$	$r = 12$	$r = 9$

3 $\log_8(9t+9) - \log_8(t+5) = \log_8(3t)$

Use the quotient rule to simplify this to a quadratic and solve for 't'

A	B	C
$t = 1$	$t = 5$	$t = 9$

4 $\log_4(-11z+2) - \log_4(-2z+11) = \log_4(-1z)$

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

A	B	C
$z = -10$	$z = 6$	$z = -1$

5 $\log_2(7q-4) - \log_2(-1q+7) = \log_2(1q)$

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

A	B	C
$q = 8$	$q = -3$	$q = 2$

6 $\log_9(-1q+6) - \log_9(q-2) = \log_9(1q)$

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

A	B	C
$q = 6$	$q = -3$	$q = 3$

7 $\log_2(-1r+8) - \log_2(-4r+5) = \log_2(-1r)$

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

A	B	C
$r = 3$	$r = -1$	$r = 4$

8 $\log_7(-4m+8) - \log_7(8m-4) = \log_7(1m)$

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

A	B	C
$m = 8$	$m = 1$	$m = 7$