Name

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1 $\log_6(m+2) - \log_6(m+2) = \log_6(1m)$

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

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

2 $\log_{10}(y+6) - \log_{10}(y+4) = \log_{10}(-1y)$

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

A	B	C
$y = -7$ $y = -7$	$y = -6$ $y = -10$	$y = -2$ $y = -3$

3 $\log_6(z+3) - \log_6(z-1) = \log_6(1z)$

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

A	B	C
$z = 3$	$z = 6$	$z = 7$

4 $\log_3(x+10) - \log_3(x+4) = \log_3(1x)$

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

A	B	C
$x = 4$	$x = 6$	$x = 2$

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

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

A	B	C
$z = -1$	$z = 1$	$z = 7$

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

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

A	B	C
$t = 1$	$t = 7$	$t = 6$

7 $\log_4(y+9) - \log_4(y+1) = \log_4(1y)$

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

A	B	C
$y = 9$	$y = 3$	$y = -1$

8 $\log_2(z+7) - \log_2(z+7) = \log_2(-1z)$

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

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