

$(1, 1)$       $A+B=1$       $A+B=0$       $2A=2$       $A=1$       $B=-1$   
 $(2, 9)$       $2A+B=9$       $2A+B=2$   
 $\Rightarrow y^{n-1} \Rightarrow y=0$       $y^{-1} = \frac{1}{y}$  ✓

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$y^m + 1 = \lambda x^m \Rightarrow x^m - \lambda x^m + 1 = 0$       $x = 1, \omega = y^m$   
 $g_y^y, g_y^\omega \Rightarrow g_y^y + g_y^\omega = g_y^{\omega}$  ✓

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$(g_{y1}^y)^y + \frac{(1 + g_{y1}^y)(y + g_{y1}^y)}{(1 + (1 - g_{y1}^y))} = (g_{y1}^y)^y + y - (g_{y1}^y)^y = y$  ✓

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$y^{(n-1)^y} (1-n)^y = \omega$       $10^\omega = (1-n)^\omega \Rightarrow 1-n=10$       $n=-9$   
 $g_y^9 = y$  ✓

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$(n^y + m^y)(m - y) = y^y = n^y - 1 \Rightarrow n^y = m^y = m = y^y$   
 $g_y^y = \frac{y}{y} \times y = y$  ✓

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