Our system	Wolfram Alpha	Performance
1. What is the formula for Riemann zeta fur	action?	
$\zeta(s) \sum_{n=1}^{\infty} \frac{1}{n^s}$	$\zeta(s) = 2^s \pi^{(-1+s)} \Gamma(1-s) \sin((\pi s)/2) \zeta(1-s)$	=
2. What is the formula for Logical equivalent	ce?	
$p \iff q$	No result	>
3. What is the formula for Direct sum?		
$(a_1, b_1) \cdot (a_2, b_2) = (a_1 \circ a_2, b_1 \bullet b_2)$	$\sum_{k=0}^{\infty} x^k = 1/(1-x) \text{ when } abs(x) < 1$	>
4. What is the formula for Determinant?		
$\det(A) \sum_{\sigma \in S_n} ((\sigma) \prod_{i=1}^n a_{i,\sigma_i})$	Computation of 3x3 determinant	=
5. What is the formula for Hypergeometric i	function?	
	$c_{k+1}/c_k = P(k)/Q(k) = \dots$	=
6. What is the formula for Continued fraction	n?	
$a_0 + \frac{b_1}{b_2}$	3.17	>
$\begin{bmatrix} a_0 + \frac{b_1}{a_1 + \frac{b_2}{a_2 + \frac{b_3}{a_3 + \dots}}} \end{bmatrix}$		
7. What is the formula for Pitman-Yor process	ess?	
No result	No result	=
8. What is the formula for Refractive index?	,	
$n = \frac{c}{v}$	$n = \frac{c}{v}$	=
9. What is the formula for Logistic map?		
$x_{n+1} = rx_n(1 - x_n)$	No result	>
10. What is the formula for Multimodal lear	ning?	
$E(\mathbf{v}, \mathbf{h}; \theta) = -\sum_{i=1}^{D} \sum_{j=1}^{F} W_{ij} v_i h_j$		
$-\sum_{i=1}^{D} b_i v_i - \sum_{j=1}^{F} a_j h_j$	No result	>

Our system	Wolfram Alpha	Performance			
11. What is the formula for Force?					
F = ma	Movie information for <i>The Formula</i>	>			
12. What is the formula for Legendre symbol	12. What is the formula for Legendre symbol?				
TV o W	$Q_n^m(z) = \lim_{\tilde{m} \to m} Q_n^{\tilde{m}}(z) \text{ for } m \in \mathbb{Z}$	=			
13. What is the formula for Quadratic equation	13. What is the formula for Quadratic equation?				
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	=			
14. What is the formula for Binary logarithm?					
$x = \log_2 n \iff 2^x = n$	$\log_2(x) = (2\log(\sqrt{x}))/\log 2$	>			
15. What is the formula for Binomial coefficient?					
$\binom{n}{k} = \frac{n!}{k!(n-k)!}$	Computation of binomial coefficient	=			
16. What is the formula for Mandelbrot set	?				
$z_{n+1} = z_n^2 + c$	$z_(n+1) = z_n^2 + c \mid z_0 = 0$	=			
17. What is the formula for Hessian form of an elliptic curve?					
No result	$x(t) = at^2, y(t) = at^3$	<			
18. What is the formula for L'Hopital's rule?					
No result	$\lim(f(x)/(g(x)) = \lim(f'(x)/(g'(x))$	<			
19. What is the formula for Golomb sequence	ce?				
$a_n = \varphi^{2-\varphi} n^{\varphi-1}$	$a_n = Round[\phi^{2-\phi}n^{\phi-1}]$	<			
20. What is the formula for Polynomial?					
$P(x) = \sum_{k=0}^{n} a_k x^k$	Computation of polynomial	=			

$\log_{10}(x) = \frac{\ln(x)}{\ln(10)}$	$\log_{10}(x) = (2\log(\sqrt{x}))/\log(10)$	=
22. What is the formula for Faraday's law	of induction?	
No result	$ arepsilon = \left rac{darPhi_B}{dt} ight $	<
23. What is the formula for P versus NP p	roblem?	
No result	The determination of whether all NP-problems are actually P-problems.	<
24. What is the formula for Gamma function	on?	
$\Gamma\left(z\right) = \int_0^\infty e^{-t} t^{z-1} dt$	$\Gamma(x) = \Gamma(n+x)/x_n$	=
25. What is the formula for Chain rule?		
$(f \circ g)' = (f' \circ g) \cdot g'$	$(dy)/(dx) = (dy)/(du) \cdot (du)/(dx)$	=
26. What is the formula for Pythagorean the	heorem?	
$c^2 = a^2 + b^2$	$a^2 + b^2 = c^2$	=
27. What is the formula for Pythagorean to	riple?	
$a = m^2 - n^2, b = 2mn, c = m^2 + n^2$	$a^2 + b^2 = c^2$	>
28. What is the formula for Jensen's inequa	ality?	
No result	$f(\sum_{i=1}^{n} p_i x_i) \le \sum_{i=1}^{n} p_i f(x_i)$ if f convex	
	$f(\sum_{i=1}^{n} p_i x_i) > = \sum_{i=1}^{n} p_i f(x_i)$ if f concave	<
29. What is the formula for Logistic function	on?	
$f(x) = \frac{L}{1 + \mathrm{e}^{-k(x - x_0)}}$	$1/(1 + exp(-x)) = e^x/(1 + e^x)$	>
30. What is the formula for Convolution?		
$(f * g)(t) \stackrel{\text{def}}{=} \int_{-\infty}^{\infty} f(\tau)g(t - \tau)d\tau$		
$= \int_{-\infty}^{\infty} f(t-\tau)g(\tau)d\tau$	No result	>
Evaluation results:		
14 = 10 > 6 <		

Wolfram Alpha

Performance

Our system