Sponsored by:

1	Evaluate:
1	$\sin\left(\cos^{-1}\frac{15}{17} + \tan^{-1}\frac{4}{3}\right)$.
	17 3/
2	Find the sum of the squares of the zeros (roots) of the
	polynomial:
	$-x^4 + 3x^3 + 2x^2 + 1$
3	If p and q are positive prime numbers such that
	If p and q are positive prime numbers such that $x^2 - px + q = 0$ has distinct positive integer solutions,
	find the value of $p^2 + q^2$.
4	Suppose $f(x) - 2f(1 - x) = x$ for all values of x. What
	is $f(x)$ in terms of x only?
5	What is the smallest positive prime factor of the number
J	N, where
	$\log_{2010}(\log_{2011}(\log_{2012}(\log_{2013}(\log_{2014}N)))) = 0.$

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