Mathew Rogers* (mathewrogers@gmail.com). New formulas for special values of the
Ramanujan zeta function.

Ramanujan’s zeta function is defined by $\sum_{n=1}^{\infty} \frac{\tau(n)}{n^s}$, where $\tau(n)$ is the Ramanujan tau function. I will show how to prove
new formulas for values outside of the critical strip, such as at $s=12$ and $s=13$. The method is based on an approach that
was recently used to solve certain special cases of the Bloch-Beilinson conjectures for elliptic curves. (Received September
25, 2012)