

$$\phi(q) := \sum_{n=-\infty}^{\infty} q^{n^2} = \vartheta_3(0, 2z)$$

$$\psi(q) := \sum_{n=0}^{\infty} q^{n(n+1)/2} = 2^{-1} q^{-1/8} \vartheta_2(0, z),$$

and

$$f(-q) := (q; q)_{\infty} = q^{-1/24} \eta(z),$$

where ϑ_2 , ϑ_3 are classical theta-functions [7, p. 464], η denotes the Dedekind eta-function and

$$(a; q)_{\infty} := \prod_{k=0}^{\infty} (1 - aq^k).$$

In his first notebook [6, vol. I, p. 248] S. Ramanujan recorded many elementary and non elementary values of $\phi(q)$ and $\psi(q)$. All these values were proved by Berndt [4, p. 325] and Berndt and Chan [5]. They also found new explicit values $\phi(q)$. Recently, Yi [8,9] evaluated many new values of $\phi(q)$ and $f(q)$ using modular identities, transformation formulae for theta-functions and the parameters $r_{k,n}$, $r'_{k,n}$, $h_{k,n}$, and $h'_{k,n}$, defined, respectively, by

$$r_{k,n} := \frac{f(-q)}{k^{1/4} q^{(k-1)/24} f(-q^k)}, \quad q = e^{-2\pi\sqrt{n/k}}, \quad (1.1)$$

$$r'_{k,n} := \frac{f(q)}{k^{1/4} q^{(k-1)/24} f(q^k)}, \quad q = e^{-\pi\sqrt{n/k}}, \quad (1.2)$$

$$h_{k,n} := \frac{\phi(q)}{k^{1/4} \phi(q^k)}, \quad q = e^{-\pi\sqrt{n/k}}, \quad (1.3)$$

and

$$h'_{k,n} := \frac{\phi(-q)}{k^{1/4} \phi(-q^k)}, \quad q = e^{-2\pi\sqrt{n/k}}. \quad (1.4)$$

Baruah and Saikia [2] also obtained several new explicit values of the theta-function $\psi(q)$ by finding explicit values of the parameters $g_{k,n}$ and $g'_{k,n}$ which are defined, respectively, by

$$g_{k,n} := \frac{\psi(-q)}{k^{1/4} q^{(k-1)/8} \psi(-q^k)}, \quad q = e^{-\pi\sqrt{n/k}}, \quad (1.5)$$

and

$$g'_{k,n} := \frac{\psi(q)}{k^{1/4} q^{(k-1)/8} \psi(q^k)}, \quad q = e^{-\pi\sqrt{n/k}}. \quad (1.6)$$

In sequel to the above work, we now define a new parameter $A_{k,n}$ for any positive real numbers k and n and involving theta-functions $\phi(q)$ and $\psi(q)$ as

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the American Mathematical Society text.

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