$$\sum_{i=0}^{k} t^i = \frac{t^{k+1}-1}{t-1}, \tag{59}$$

$$\sum_{i=0}^{k} i t^i = \frac{k t^{k+2}-(k+1)t^{k+1}+t}{(t-1)^2}. \tag{60}$$

Приведем окончательные выражения для всех функций, участвующих в теореме А.

Пусть

$$T=(p^{32n^5}-1)(p^{32n^3}-1)^{-1},$$

$$R=\{(n^2+2n+1)p^{32n^5+64n^4+32n^3}-$$

$$-(n^2+3n+2)p^{32n^5+64n^4}-(n^2+4n+3)p^{32n^5+32n^4+32n^3}+$$

$$+(n^2+6n+6)p^{32n^5+32n^4}+(n+2)p^{32n^5+32n^3}-$$

$$-(2n+4)p^{32n^5}-(n+1)p^{64n^4+32n^3}-$$

$$-(n+2)p^{64n^4}+(2n+3)p^{32n^4+32n^3}-(2n+6)p^{32n^4}-$$

$$-2p^{32n^3}+4\}\times$$

$$\times(p^{16n^3}-1)^{-1}(p^{16n^3}+1)^{-2}(p^{32n^4}-1)^{-2}.$$

Тогда можно положить

$$B_1'=p^{32n^3-1}T+R,$$
$$B_2'=(p^{32n^3-1}-1)T+R,$$
$$B_3'=R,$$
$$B_4'=T+2R,$$
$$B_5'=p^{32n^3-1}T-R,$$
$$B_6'=(p^{32n^3-1}-1)T-R,$$