97	0	8160	-357380	24400968
100	2	8470	-95406	-2424286
101	0	4560	-461036	1292284

2	-24	216	and
3	252	-3348	and
5	4830	52110	and
7	-16744	2822064	and

$$A = \sum_{x,y \in \mathbb{Z}} e\left(xy\tau + \frac{(x-y)^2}{2} iv + 2z(x+y)\right) = \sum C_1(D)\, e\left(\frac{r^2 D}{4}\tau + \frac{D}{2} iv + rz\right)$$

$$B = \sum 6D\, C_1(D)\, e\left(\frac{r^2 D}{4}\tau + \frac{D}{2} iv + rz\right) - A E_2 = \sum C_3(D)\, e(\ldots D, r \ldots)$$

$$\phi_7 = (A E_6 + B E_4)/12 = \sum F_7(D)\, e(\ldots D, r \ldots)$$

$$\phi_9 = (A E_8 + B E_6)/12 = \sum F_9(D)\, e(\ldots D, r \ldots)$$