

Since $10^n \equiv 280 \pmod{360}$ for any $n \geq 3$, the sine of an angle in degrees, given by an integer multiple of 1000, equals the sine of the sum of the digits multiplied by 280° :

$$\sin(a_1 a_2 \cdots a_{k-1} a_k 000^\circ) = \sin\left((a_1 + a_2 + \cdots + a_{k-1} + a_k)280^\circ\right).$$