

I. The function $F(k)$ is defined for positive integers by $F(1) = 1$, $F(2) = 1$, $F(3) = -1$ and by the identities

$$F(2k) = F(k), \quad F(2k + 1) = F(k)$$

for $k \geq 2$. The sum

$$F(1) + F(2) + F(3) + \cdots + F(100)$$

equals

- (a) -15 ; (b) 28 ; (c) 64 ; (d) 81 .