·25 (247)

$n = 15$

$d = 2$

$b_1 = a_1 + a_2 + \dots + a_{1k}$

$b_2 = a_2 + a_3 + \dots + a_{k+1}$

$\vdots$

$b_{16-k} = a_{16-k} \dots + a_{15} + a_{15}$

$b_{16-k} = 88 + b_1$

$\frac{k}{2}\left[2a_1 + d(k-1)\right] = 88 + \frac{k}{2}\left[2a_1 + d(k-1)\right]$

$\frac{k}{2}\left[2a_1 + 14d - dk + d\right] = 88 + \frac{k}{2}\left[2a_1 + dk - d\right] \quad /\cdot 2$

$k\left[2a_1 + 29d - dk\right] = 176 + k\left[2a_1 + dk - d\right]$

$2a_1k + 29dk - dk^2 = 176 + 2a_1k + dk^2 - dk$

$2dk^2 - 30dk + 176 = 0$

$d = 2$

$4k^2 - 60k + 176 = 0 \quad /:4$

$k^2 - 15k + 44 = 0$

$\boxed{k = 11, \quad k = 4}$