23 (3,2)

a_1 $\quad a_1+d$ $\quad a_1+2d$ $\quad a_1+3d$

a_1-1 $\quad a_1+d-2$ $\quad a_1+2d-2$ $\quad a_1+3d$

$$\begin{cases} (a_1+d-2)^2 = (a_1-1)(a_1+2d-2) \\ (a_1+2d-2)^2 = (a_1+d-2)(a_1+3d) \end{cases}$$

$a_1^2+d^2+4+2a_1d-4a_1-4d = a_1^2+2da_1-2a_1-a_1-2d+2$

(*) $\boxed{d^2 = a_1+2d-2}$

$a_1^2+4d^2+4-4a_1+4da_1-8d = a_1^2+3da_1+da_1+3d^2-2a_1-6d$

$\boxed{d^2 = 2a_1+2d-4}$

$a_1+2d-2 = 2a_1+2d-4$

$\boxed{2 = a_1}$

(*) -> נציב

$d^2 = 2+2d-2$

$d^2 = 2d \rightarrow$ ~~$d=0$~~ $d=2 \rightarrow \boxed{2,4,6,8}$