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2n ? פונקציה של n

$$\begin{cases} S_{2n} = 3S_n \\ S_{2n} = 2.1 S_{\text{אחרת}} \end{cases}$$

$$\begin{cases} \frac{2n}{2} [2a_1 + d(2n-1)] = 3 \frac{n}{2} [2a_1 + d(n-1)] \\ \frac{2n}{2} [2a_1 + d(2n-1)] = 2.1 \frac{n}{2} [2a_1 + 2d(n-1)] \end{cases}$$

$$\begin{cases} 4a_1 + 4dn - 2d = 6a_1 + 3dn - 3d \\ 4a_1 + 4dn - 2d = 4.2a_1 + 4.2dn - 4.2d \end{cases}$$

$$\begin{cases} 2a_1 = dn + d \\ 0.2a_1 = -0.2dn + 2.2d \end{cases} \rightarrow a_1 = \frac{dn+d}{2} = \frac{-0.2dn + 2.2d}{0.2}$$

$$\begin{aligned} 0.2dn + 0.2d &= -0.4dn + 4.4d \\ 0 &= 4.2d - 0.6dn \\ 0 &= 0.6d(7-n) \\ \downarrow & \quad \downarrow \\ d=0 & \quad n=7 \end{aligned}$$

14 = 2n כל פונקציה של n