

1	$y < (a-1)n^r + n + r$ $\frac{a-b}{2a} z^r \rightarrow \frac{-1}{2(a-r)} z^r \rightarrow a z^{\frac{r}{2}}$ $y^2 = \frac{1}{2} a x^r + x + r$ $-\frac{1}{2} n^r + n + r z \rightarrow x = \frac{1}{2} n^r - \frac{1}{2} n + r z \rightarrow (n-r)(n+r) z$ $\sum_{i=1}^n i^r = \frac{1}{r+1} n^{r+1} + \frac{1}{2} n^r + \dots$	
2	$f(m) = mn^r - \Delta n + m$ $f(n) = \frac{m}{n} + \frac{r}{n} - \frac{1}{n} \rightarrow \frac{1}{n} \text{ (دائماً)}$ $m < 0$ $\Delta > 0 \rightarrow r'' \delta - \frac{1}{2} m^r > 0 \rightarrow r \delta > \frac{1}{2} m^r \rightarrow \frac{r \delta}{2} > m^r \rightarrow -\frac{1}{2} < m < \frac{a}{2}$	
3	$S_2 = \frac{r-1}{r} + \frac{r+1}{r} z^{\frac{r}{2}}$ $P_2 \left(\frac{r-\sqrt{a}}{2} \right) \left(\frac{r+\sqrt{a}}{2} \right) = \frac{1}{4}$ $y_2 a^r - S_n + P \rightarrow x^r - r n + 1 z = 0$ $a n^r - 1 n a + r$	
4	$f_n^r = \Delta n + m + r z$ $\delta < a + \beta z \{ P_2 a / \beta z, \frac{m+1}{r} \}$ $r a^r + \beta^r = 1 z \rightarrow r a^r + a^r + 1 \beta^r - \beta^r = 1 z \rightarrow r (a^r + \beta^r) + (a - \beta)(a + \beta) z = 1 z$ $1 \left(\frac{1}{2} - r \left(\frac{m+1}{2} \right) + (z) \left(\frac{-\sqrt{a} - \sqrt{m}}{r} \right) \right) = 1 z - r m - r \sqrt{a} - \sqrt{m} z = 1 z - m z \sqrt{a - 1 m}$ $\rightarrow m^r - \Delta m + 1 y z \rightarrow (m - z)^r z = 0 \rightarrow \{ m, z \}$	
5	$S(r, a) \left\{ \begin{array}{l} y = a(n-h)^r + k z a(n-j)^r + a \rightarrow \{ a + a z \delta \rightarrow a z - 1 \\ c z \delta \end{array} \right\}$ $\rightarrow y z - 1 (n-r)^r + a z - n^r + \{ n + \delta \}$ $m^r \delta \delta z - n^r + \{ n + \delta \} \rightarrow n^r - \{ n - \delta \} \rightarrow (n - \delta)(n + 1) < 0$ $\frac{-1}{\delta} + \frac{1}{\delta} - \frac{1}{\delta} + \dots = -(-1, \delta)$	

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۶	$\alpha n^2 - \gamma n + \eta \beta_0 = 0$ $\alpha \beta = \frac{\eta \beta_0}{\alpha} \rightarrow \alpha^2 = \eta \beta_0 \rightarrow \alpha = \pm \sqrt{\eta \beta_0}$ $\alpha + \beta = \frac{\gamma}{\alpha} \rightarrow \beta = \frac{\gamma}{\alpha} - \alpha$ $\frac{1}{\alpha} + \frac{1}{\beta} = -\frac{1}{\alpha} + \frac{\gamma}{\alpha^2} = \left(\frac{\gamma}{\alpha}\right)$
۷	$n^2 - mn - 2m = 0 \rightarrow n^2 + mn - 2m = 0$ $\alpha^2 - m\beta = 1$ $m^2 - \{(-1)m\} \rightarrow m^2 + m > 0$ $\frac{-1 \pm \sqrt{1+4m}}{2} \rightarrow \frac{m \pm 1}{2}$ $n^2 - 2m - 2m = 0 \rightarrow n^2 = 4m \rightarrow n = \pm 2\sqrt{m}$
۸	$f(n) = mn^2 + \frac{m}{n} + \frac{1}{n} \rightarrow \frac{-\Delta \pm \sqrt{\Delta^2 - 4ac}}{2a}$ $f(n) = -2n^2 + 2n + 7$ $n^2 - 2n - 2 = 0$ $(n-1)(n+1) = 0$ $n = 1, -1$
۹	$f(n) = a(n-h)^2 + k = a(n-2)^2 + 7$ $f(n) = -\frac{1}{2}(n-2)^2 + 7 \rightarrow \frac{n^2}{2} + 2n - 2 = -\frac{n^2}{2} + 2n + 2$ $-\frac{n^2}{2} + 2n + 2 = 0 \rightarrow n^2 - 4n - 4 = 0$ $\frac{1}{\alpha} + \frac{1}{\beta} = -\frac{\alpha + \beta}{\alpha\beta} = -\frac{1}{2}$
۱۰	$n^2 - (2a+2)n + (2a^2 + 2a + 2) = 0 \rightarrow 2a^2 - 2a - 2 = 0$ $n^2 - 2n - 2 = 0$ $(n-1)(n+1) = 0$ $n = 1, -1$