



3, 2, 1, 0, -1, -2, -3

$$3 < n < 10$$

$$(n-3)(n-1) < 0$$

$$n^2 - 4n + 3 < 0$$

$$\therefore 3 < n < 10$$

8

$$n^2 - 4n + 3 < 0$$

3, 2, 1, 0, -1, -2, -3

$$3 < n < 10$$

$$n < 10$$

$$n > 3$$

$$\therefore 3 < n < 10$$

$$n^2 - 4n + 3 < 0$$

$$n^2 - 4n + 3 = \left[\frac{3}{1} \right] - 4n = \left[\frac{3}{1} \right] - 4 \times 1$$

$$\therefore 3 < n < 10$$

8

$$n^2 - 4n + 3 < 0$$

$$\frac{3}{1} < \frac{3}{1} < \frac{3}{1} < \frac{3}{1}$$

8

$$\therefore 3 < n < 10$$

$$n^2 - 4n + 3 < 0$$

$$\therefore 3 < n < 10$$

Subject

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الف) $t_n = 2n - 16$

$$2n - 16 \leq 0$$

$$2n \leq 16 \rightarrow n \leq 8 \rightarrow 1 \leq n \leq 8$$

1 جمله ✓

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ب) $t_n = n^2 - 12n + 27$

$$n^2 - 12n + 27 \leq 0$$

$$(n - 3)(n - 9) \leq 0 \rightarrow 3 \leq n \leq 9$$

$$\begin{array}{c} 3 \quad 9 \\ + \quad - \quad - \quad + \end{array}$$

7 جمله ✓

$$t_8 = 7$$

8

$$t_9 = 22 \rightarrow t_9 = t_8 + d$$

$$22 = 7 + d$$

$$d = 15$$

$$d = 15$$

$$t_{10} = t_8 - d$$

$$t_{10} = 7 - 15 = -8$$

الف) $t_n = n^2 - 6n + 2$

6

$$\frac{-b}{2a} = \frac{6}{2} = 3 \rightarrow t_3 = 3^2 - 6 \times 3 + 2 = -7$$

جمله ششم در ناله

ب) $t_n = n^2 + 8n + 1$

$$\frac{-b}{2a} = \frac{-8}{2} = -4 \rightarrow$$

نمی توانیم منفی باره است که بین مقدار آن جمله اول است

$$t_1 = 1 + 8 + 1 = 10$$

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