

$$1) \quad \varepsilon_n = 2n^2 - 1 = 2, 5, 8, 11, 14, 17, 20, \dots$$

$$2) \quad \varepsilon_n = \frac{2n+1}{n+1} = \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \dots$$

$$3) \quad \varepsilon_n = \frac{(-1)^n}{\sqrt{n+1}} \quad \frac{(-1)^{10}}{\sqrt{1+1}} = \frac{-1}{\sqrt{2}} = -\frac{1}{\sqrt{2}}$$

$$4) \quad \varepsilon_n = 2n - \left\lfloor \frac{n}{2} \right\rfloor = 2 \times 10 = 20 - \left\lfloor \frac{10}{2} \right\rfloor = 20 - 5 = 15$$

$$5) \quad \varepsilon_n = 2n - 10 \rightarrow 6 \quad \text{من 10 فصلاً}$$

$$6) \quad \varepsilon_n = n^2 - 14n + 50 \quad n \geq 10$$

$$\varepsilon_n = (n-7)(n-10) \quad n \geq 10$$

$$\varepsilon_n = 2n - 19 \geq 0 \rightarrow 2n - 19 \geq 0 \rightarrow n \geq 10$$

$$\varepsilon_n = n^2 - 12n + 35 \rightarrow (n-5)(n-7) \geq 0 \quad n \geq 7$$

$$7) \quad \varepsilon_n = 2\sqrt{n} \quad \text{من 2 فصلاً}$$

$$8) \quad \varepsilon_n = 2\sqrt{n} \quad \text{من 2 فصلاً}$$

$$\varepsilon_n = n^2 - 9n + 2 \rightarrow 0$$

$$\varepsilon_n = n^2 + 5n + 1$$

$$9) \quad -1, -2, -3, -4, -5, -6, -7, -8, -9, -10, \dots$$

$$\varepsilon_n = -4, -1, 2, 5, 8, 11, 14, 17, 20, \dots$$

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