

دهم خترانی ح

نمبر لطیف ۱۵

ايل ماه سالار

۲۵

① ۳

د ۷، ۴۷، ۲۴، ۱۱ و ۲ (الف)

$$\text{ب) } \frac{11}{9}, \frac{9}{8}, \frac{7}{7}, \frac{5}{6}, \frac{4}{5}$$

$$\text{الف) } t_{13} = \frac{(-1)^{13}}{\sqrt{13+3}} = \frac{-1}{4}$$

$$\text{ب) } t_{13} = 2 \times 13 - \left[\frac{13}{4} \right] = 26 - 3 = 23$$

③ ۳

$$\text{الف) } 2n - 10 < 0$$

$$2n < 10$$

$$n < 5$$

$$n \leq 4 \text{ جواب}$$

$$\text{ب) } n^2 - 14n + 40 < 0$$

$$(n-10)(n-4) < 0 \quad 4, 5, 6, 7, 8, 9 \text{ جواب}$$

$$\begin{array}{c} 10 \quad 4 \\ + \quad - \quad + \\ \hline + \quad + \quad - \quad - \quad + \end{array}$$

Diba

$$\text{ج) } tn = 2n - 14 \leq 0$$

$$2n \leq 14$$

$$n \leq 7$$

٧ ١

$$\text{ب) } n^2 - 12n + 20 \leq 0$$

$$(n-4)(n-2) \leq 0$$

$$n = [2, 4]$$

٢ ٤

$$\begin{array}{c} 1 \quad 2 \quad 4 \\ \oplus \quad \oplus \quad - \quad \oplus \quad \oplus \end{array}$$

$$a_7 = 7$$

$$a_9 = 22$$

$$d = \frac{a_9 - a_7}{9 - 7} = \frac{22 - 7}{2} = \frac{15}{2} = 7.5$$

$$a_7, a_9 - d = 7 - 7.5 = -0.5$$

$$\text{ج) } n^2 - 4n + 1$$

$$\frac{-b}{2a} = \frac{4 - 1}{-2} = \frac{3}{-2} = -1.5$$

$$n = \frac{-b}{2a} = \frac{4}{2} = 2$$

$$\text{ب) } n^2 + 8n + 1$$

$$1 + 8 + 1 = 10$$

$$n = 1$$

Diba

$$\begin{array}{ccccccc}
 a+b+c & -\varepsilon & -v & -\Lambda & -v & -\varepsilon \\
 \hline
 ra+b & -r & -1 & +1 & +r \\
 \hline
 ra & = & +r & +r
 \end{array}$$

(✓) (v)

$$ra = r$$

$$a = 1$$

$$nr - 4n + 1 = \varepsilon n$$

$$1 - 4 + 1 = \varepsilon 1$$

$$ra+b = -r \quad b = -4$$

$$| \varepsilon 1 = \varepsilon 1 |$$

$$a+b+c = -\varepsilon \quad c = 1$$

$$\begin{array}{ccccccc}
 -4 & -1 & \Lambda & r1 \\
 \hline
 +8 & +9 & +1r \\
 \hline
 +\varepsilon & +\varepsilon
 \end{array}$$

(✓) (Λ)

$$ra = \varepsilon$$

$$a = r$$

$$t_n = nr - n - v$$

$$ra+b = d$$

$$b = -1$$

$$a+b+c = -4 \quad c = -v$$

$$ra+1 \neq a+\varepsilon$$

$$a \neq r$$

$$a = [r + \infty)$$

(✓) (4)

$$\begin{array}{cccc}
 1 \times r & 2 \times r & 3 \times r & 4 \times r \\
 \hline
 3 & 4 & 9 & 9
 \end{array}$$

$$m = 3r$$

(✓) (10)

Diba

Subject: ()

Date:

ب) 1×8 2×8 4×19
 $8, 16, 32, \dots, 72$ $m = 19$

ج) 1×18 4×18
 $18, 36, \dots, 72$ $m = 4$

د) $19 + 2 \times 2 - 4 = 14$ 14

$$A \cup B = A + B - A \cap B$$