

الف) $3-1=2$ $3 \times 14-1=41$
 $4 \times 6-1=23$ $3 \times 28-1=81$ $2, 11, 24, 47, 76$
 $3 \times 9-1=26$

ب) $\frac{2+1}{1+6} = \frac{3}{7}$, $\frac{4+1}{4+6} = \frac{5}{10}$, $\frac{6+1}{3+6} = \frac{7}{9}$, $\frac{8+1}{5+6} = \frac{9}{11}$ $\rightarrow \frac{3}{7}, \frac{5}{10}, \frac{7}{9}, \frac{9}{11}$

الف) $\frac{(-1)^{13}}{\sqrt{14+3}} = \frac{-1}{\sqrt{17}} = -\frac{1}{\sqrt{17}}$

ب) $24 - \left[\frac{13}{\sqrt{17}} \right] = 24 - 3 = 21$

الف) $\rightarrow 2(n-5)$ $\frac{5}{- \quad +}$ $1, 2, 3 \rightarrow$ جواب صحیح

ب) $\rightarrow (n-4)(n-10)$ $\frac{4 \quad 10}{+ \quad - \quad +}$ $0, 4, 7, 1, 9 \rightarrow$ جواب صحیح

الف) $\rightarrow 2n-14 = 2(n-7)$ $\frac{14}{- \quad +}$ $1, 2, 3, 4, 5, 6, 7 \rightarrow$ 1 جواب صحیح

ب) $\rightarrow (n-3)(n-9)$ $\frac{3 \quad 9}{+ \quad - \quad +}$ $3, 4, 5, 6, 7, 8, 9 \rightarrow$ 7 جواب صحیح

$a_7 = 7 \rightarrow a_1 + 6d = 7$
 $a_9 = 22$ $a_1 + 8d = 22 \rightarrow 5d = 15 \rightarrow d = 3$ $a_7 = a_9 - 2 \rightarrow a_7 = 22 - 2 = 20$ (ف)

