

Q) $T_1(15, 1, 14)$ $T_2(20, 2, 26)$ $T_3(22, 3, 22)$
 Solⁿ: $f \geq 3$ $H = 660$

i) $f = \{22, 20, 15, 11, 10, 6, 5, 4, 3, 2, 1\}$

ii) $\forall i: 2f - \gcd(P_i, f) \leq D_i \Rightarrow f = \{2, 3, 4, 5, 6\}$

\Rightarrow Possible values for $f = 3, 4, 5, 6$

Q) $T_1(4, 1, 4)$ $T_2(5, 2, 7)$ $T_3(20, 5, 20)$

Solⁿ: $H = \cancel{60} \cancel{20} 20$

i) $\forall i: f \geq e_i \Rightarrow f \geq 5$

ii) $f | H \Rightarrow f = \{20, 10, 5, 4, 2, 1\}$

iii) $\forall i: 2f - \gcd(P_i, f) \leq D_i \Rightarrow f = \{4, 2, 1\}$

\Rightarrow Possible values of $f = 1, 2, 4$

Q) $T_1(5, 0, 1, 5)$ $T_2(7, 1, 7)$ $T_3(12, 6, 12)$ $T_4(45, 9, 45)$

Solⁿ: $H = 1260$

i) $\forall i: f \geq e_i \Rightarrow f \geq 9$

ii) $f | H \Rightarrow f = \{1, 2, 3, 4, 5, 6, 7, 9, 10, 12, \dots\}$

iii) $\forall i: 2f - \gcd(P_i, f) \leq D_i \Rightarrow f = \{1, 2, 3\}$

\Rightarrow Possible values for $f = 1, 2, 3$