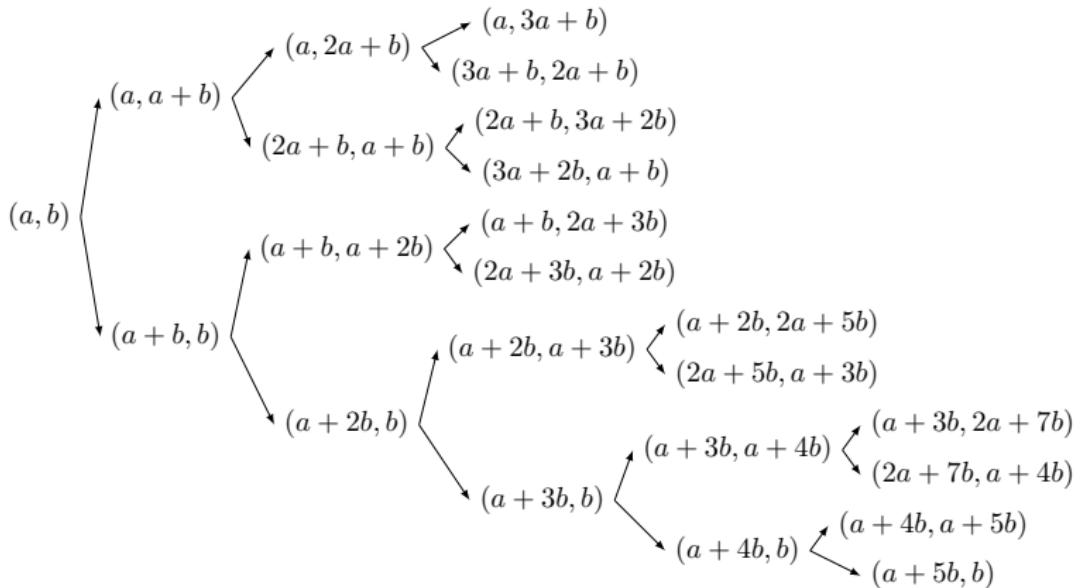
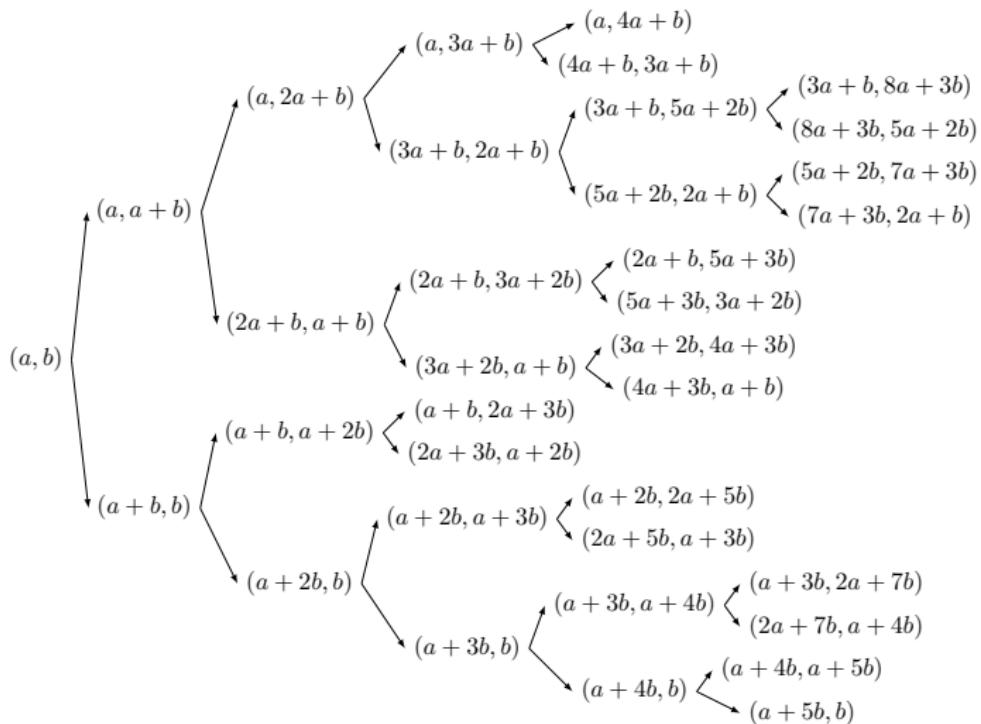


- (4) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(a + 3b) = s$, $N_P(2a + b) = s$,
- (i) $p = 2$, $q, r \neq 3$.



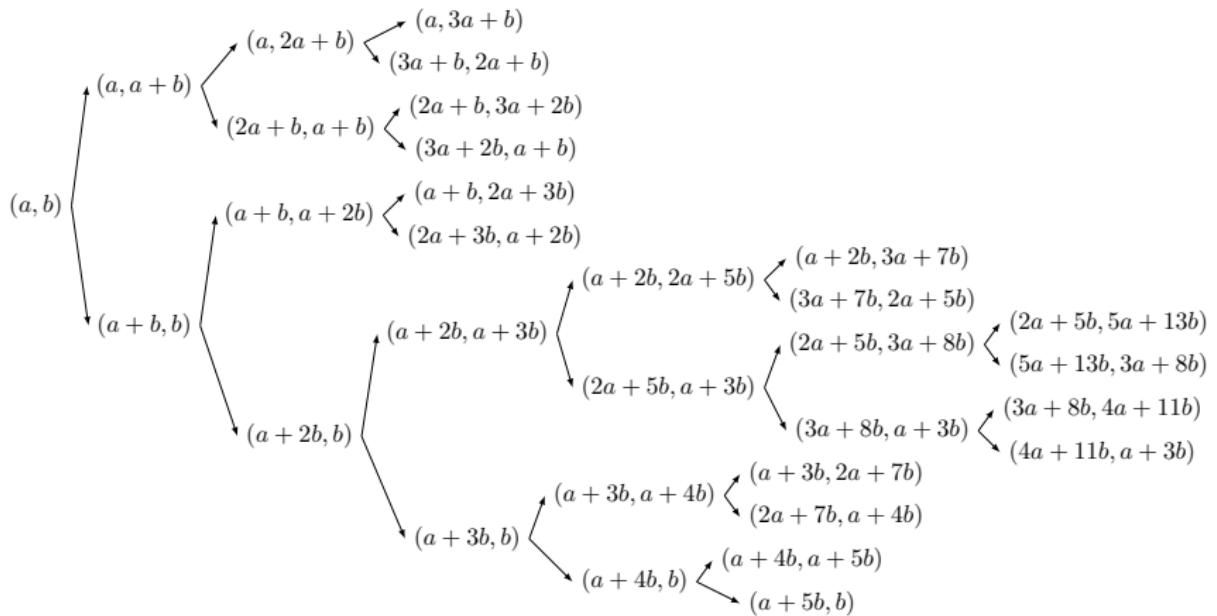
$$\begin{aligned}
\text{APT}_P(a, b) = \Big\{ & (a, b), (a, a+b), (a+b, b), (a, 2a+b) \\
& (2a+b, a+b), (a+b, a+2b), (a+2b, b), \\
& (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), \\
& (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), \\
& (a+2b, a+3b), (a+3b, b), (a+2b, 2a+5b), \\
& (2a+5b, a+3b), (a+3b, a+4b), (a+4b, b), \\
& (a+3b, 2a+7b), (2a+7b, a+4b), (a+4b, a+5b), \\
& (a+5b, b) \Big\}.
\end{aligned}$$

- (4) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(a + 3b) = s$, $N_P(2a + b) = s$,
- (ii) $p = 2$, $q = 3$.



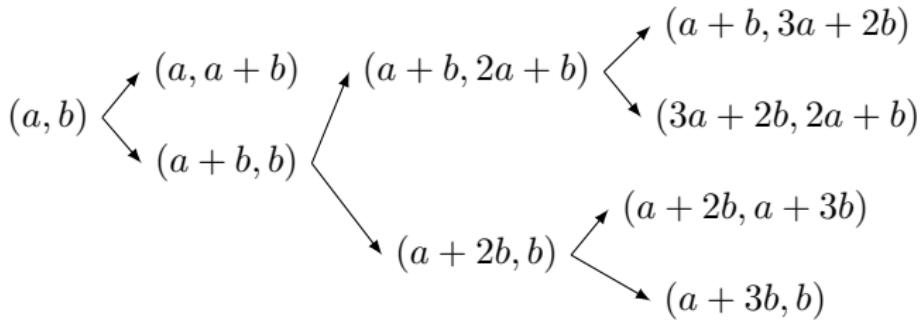
$$\begin{aligned}
\text{APT}_P(a, b) = \Big\{ & (a, b), (a, a+b), (a+b, b), (a, 2a+b) \\
& (2a+b, a+b), (a+b, a+2b), (a+2b, b), \\
& (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), \\
& (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), \\
& (a+2b, a+3b), (a+3b, b), (a, 4a+b), \\
& (4a+b, 3a+b), (3a+b, 5a+2b), (5a+2b, 2a+b), \\
& (2a+b, 5a+3b), (5a+3b, 3a+2b), (3a+2b, 4a+3b), \\
& (4a+3b, a+b), (a+2b, 2a+5b), (2a+5b, a+3b), \\
& (a+3b, a+4b), (a+4b, b), (3a+b, 8a+3b), \\
& (8a+3b, 5a+2b), (5a+2b, 7a+3b), (7a+3b, 2a+b), \\
& (a+3b, 2a+7b), (2a+7b, a+4b), (a+4b, a+5b), \\
& (a+5b, b) \Big\}.
\end{aligned}$$

- (4) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(a + 3b) = s$, $N_P(2a + b) = s$,
(iii) $p = 2$, $r = 3$.



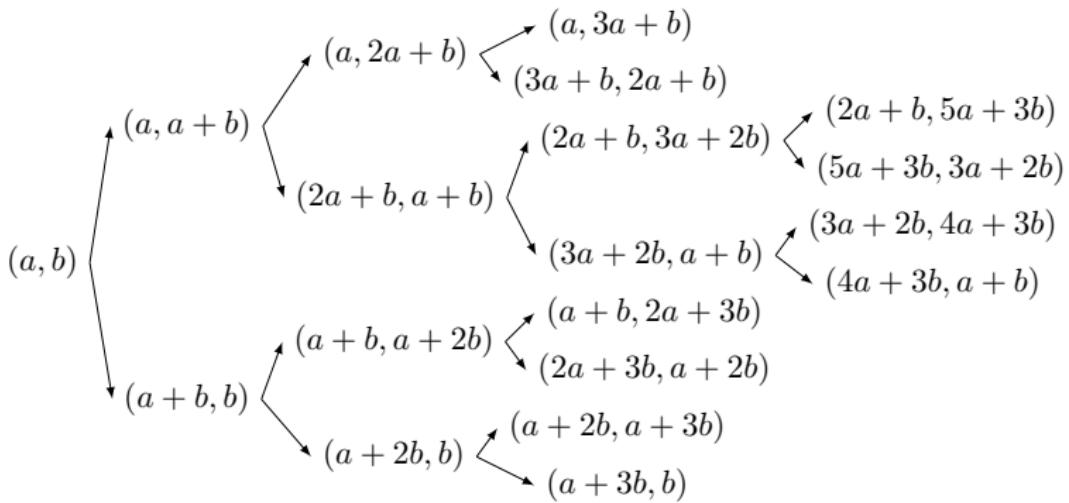
$$\text{APT}_P(a, b) = \left\{ (a, b), (a, a+b), (a+b, b), (a, 2a+b), (2a+b, a+b), (a+b, a+2b), (a+2b, b), (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), (a+2b, a+3b), (a+3b, b), (a+2b, 2a+5b), (2a+5b, a+3b), (a+3b, a+4b), (a+4b, b), (a+2b, 3a+7b), (3a+7b, 2a+5b), (2a+5b, 3a+8b), (3a+8b, a+3b), (a+3b, 2a+7b), (2a+7b, a+4b), (a+4b, a+5b), (a+5b, b), (2a+5b, 5a+13b), (5a+13b, 3a+8b), (3a+8b, 4a+11b), (4a+11b, a+3b) \right\}.$$

(5) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(a + 2b) = ps$, $N_P(2a + b) = 1$.



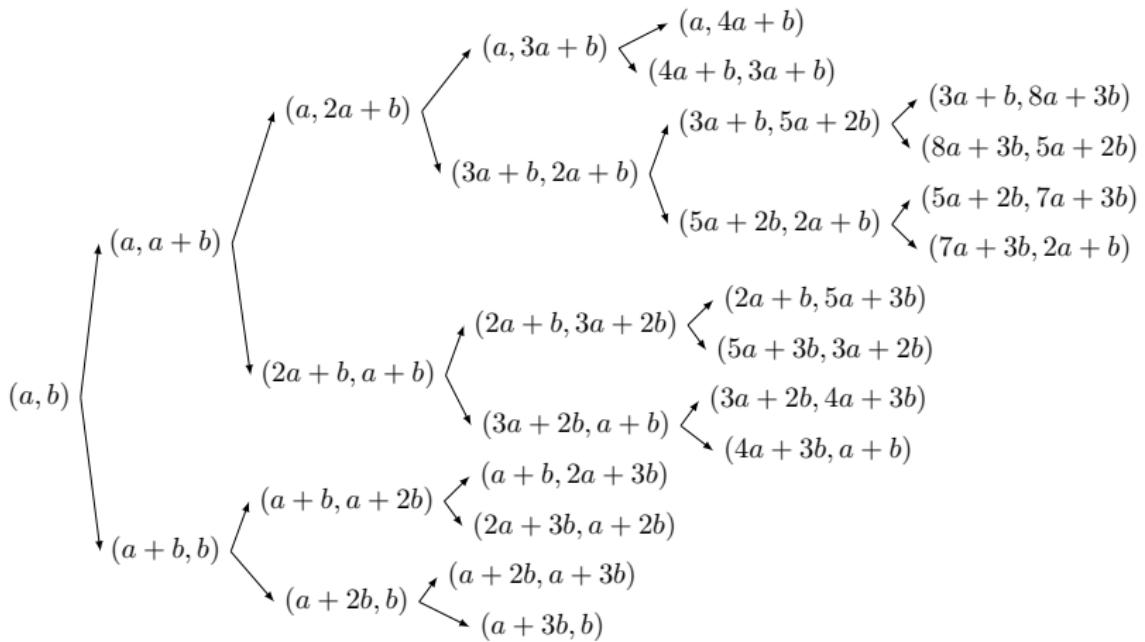
$$\text{APT}_P(a, b) = \left\{ (a, b), (a, a+b), (a+b, b), (a+b, 2a+b), (a+2b, b), (a+b, 3a+2b), (3a+2b, 2a+b), (a+2b, a+3b), (a+3b, b), \right\}.$$

- (6) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(2a + b) = s$, $N_P(a + 3b) = 1$,
- (i) $p = 2$, $q \neq 3, 5$.



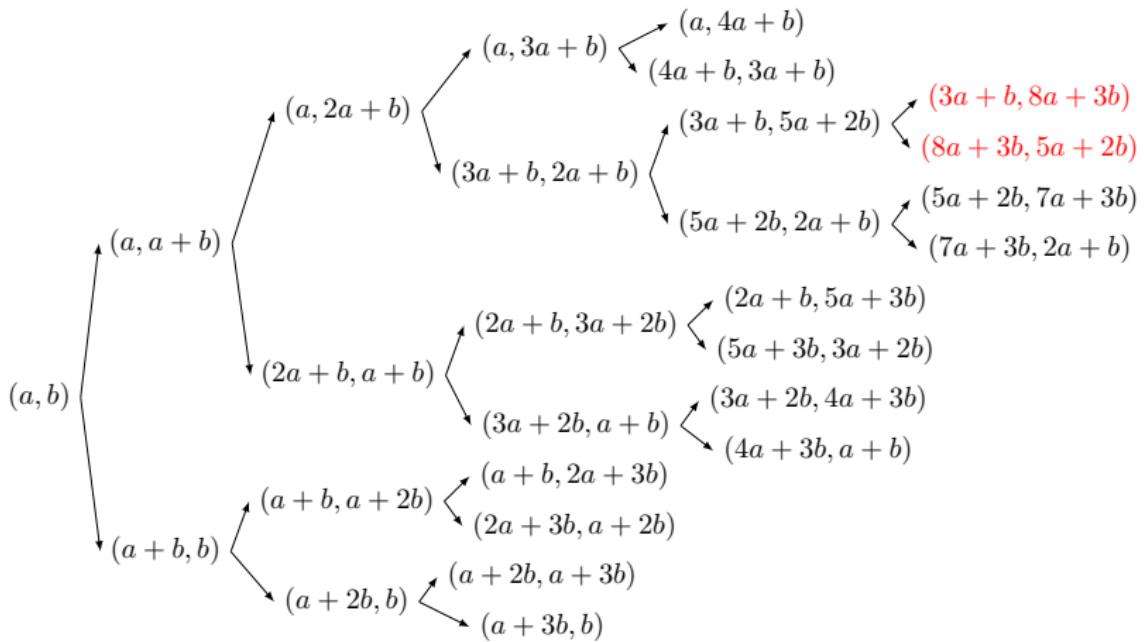
$$\begin{aligned}
\text{APT}_P(a, b) = \Big\{ & (a, b), (a, a+b), (a+b, b), (a, 2a+b) \\
& (2a+b, a+b), (a+b, a+2b), (a+2b, b), \\
& (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), \\
& (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), \\
& (a+2b, a+3b), (a+3b, b), (2a+b, 5a+3b), \\
& (5a+3b, 3a+2b), (3a+2b, 4a+3b), (4a+3b, a+b) \Big\}.
\end{aligned}$$

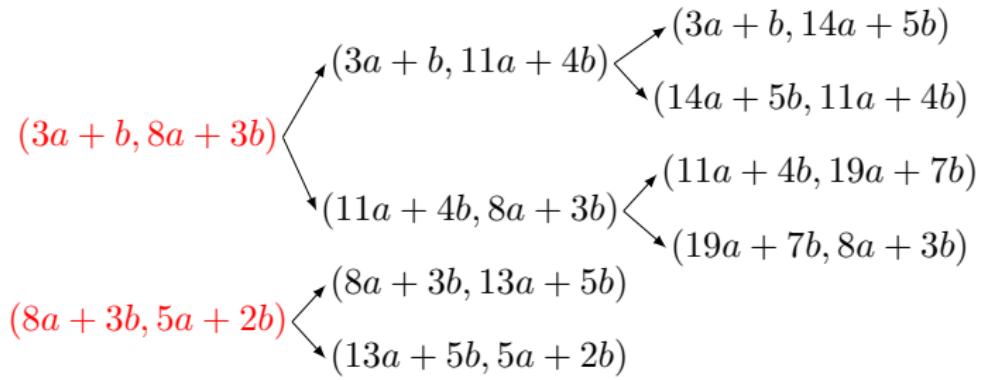
- (6) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(2a + b) = s$, $N_P(a + 3b) = 1$,
- (ii) $p = 2$, $q = 3$, $r \neq 5$.



$$\text{APT}_P(a, b) = \left\{ (a, b), (a, a+b), (a+b, b), (a, 2a+b), (2a+b, a+b), (a+b, a+2b), (a+2b, b), (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), (a+2b, a+3b), (a+3b, b), (a, 4a+b), (4a+b, 3a+b), (3a+b, 5a+2b), (5a+2b, 2a+b), (2a+b, 5a+3b), (5a+3b, 3a+2b), (3a+2b, 4a+3b), (4a+3b, a+b), (3a+b, 8a+3b), (8a+3b, 5a+2b), (5a+2b, 7a+3b), (7a+3b, 2a+b) \right\}.$$

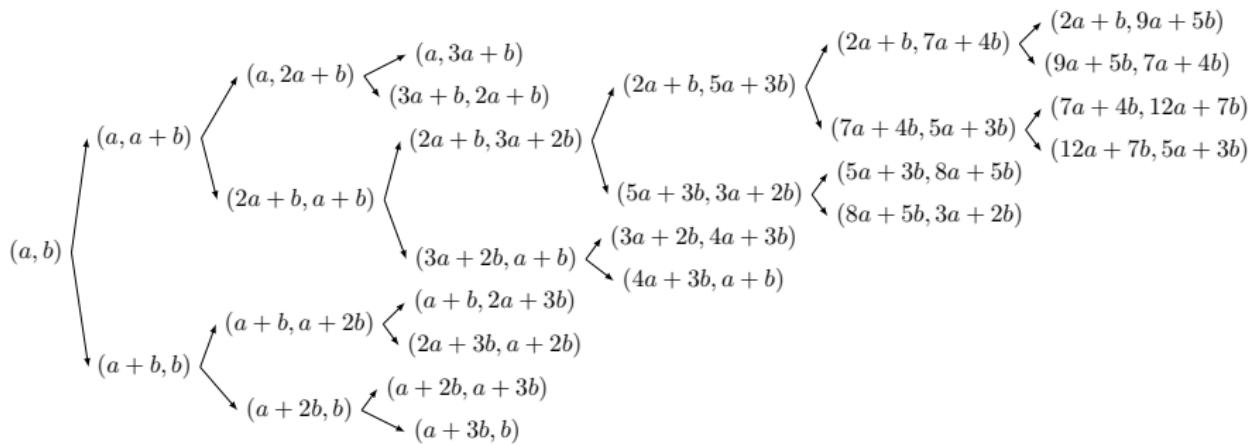
- (6) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(2a + b) = s$, $N_P(a + 3b) = 1$,
- (iii) $p = 2$, $q = 3$, $r = 5$.





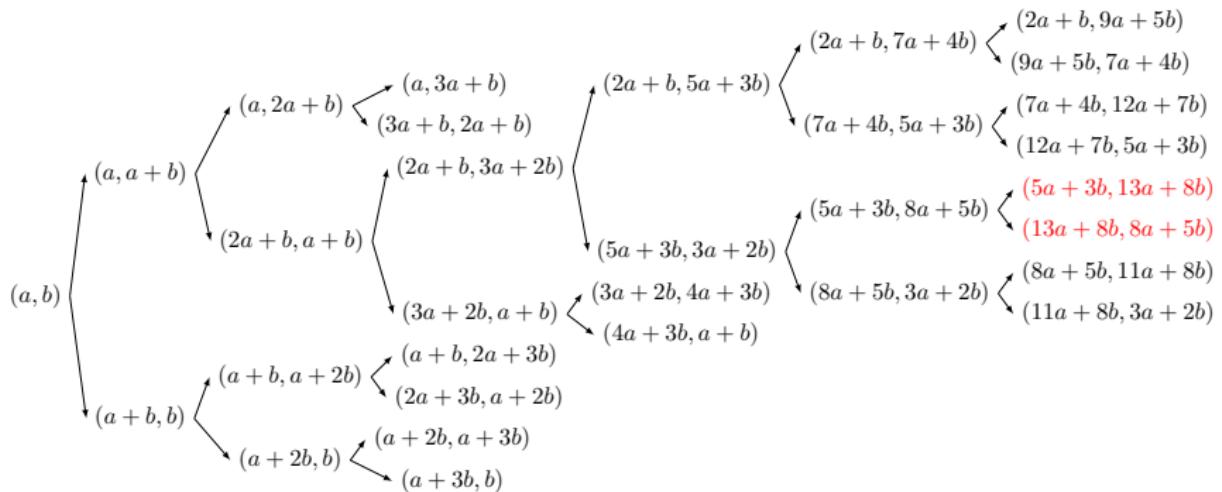
$$\begin{aligned}
\text{APT}_P(a, b) = \Big\{ & (a, b), (a, a+b), (a+b, b), (a, 2a+b) \\
& (2a+b, a+b), (a+b, a+2b), (a+2b, b), \\
& (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), \\
& (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), \\
& (a+2b, a+3b), (a+3b, b), (a, 4a+b), \\
& (4a+b, 3a+b), (3a+b, 5a+2b), (5a+2b, 2a+b), \\
& (2a+b, 5a+3b), (5a+3b, 3a+2b), (3a+2b, 4a+3b), \\
& (4a+3b, a+b), (3a+b, 8a+3b), (8a+3b, 5a+2b), \\
& (5a+2b, 7a+3b), (7a+3b, 2a+b), (3a+b, 11a+4b), \\
& (11a+4b, 8a+3b), (8a+3b, 13a+5b), (13a+5b, 5a+2b), \\
& (3a+b, 14a+5b), (14a+5b, 11a+4b), \\
& (11a+4b, 19a+7b), (19a+7b, 8a+3b) \Big\}.
\end{aligned}$$

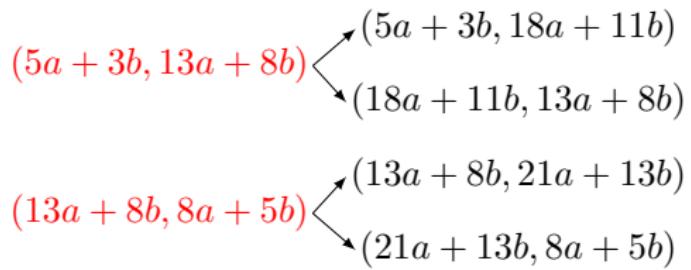
- (6) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(2a + b) = s$, $N_P(a + 3b) = 1$,
(iv) $p = 2$, $q = 5$, $r \neq 3$.



$$\text{APT}_P(a, b) = \left\{ (a, b), (a, a+b), (a+b, b), (a, 2a+b), (2a+b, a+b), (a+b, a+2b), (a+2b, b), (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), (a+2b, a+3b), (a+3b, b), (2a+b, 5a+3b), (5a+3b, 3a+2b), (3a+2b, 4a+3b), (4a+3b, a+b), (2a+b, 7a+4b), (7a+4b, 5a+3b), (5a+3b, 8a+5b), (8a+5b, 3a+2b), (2a+b, 9a+5b), (9a+5b, 7a+4b), (7a+4b, 12a+7b), (12a+7b, 5a+3b) \right\}.$$

- (6) $P = \{p, q, r, s\}$, $N_P(a) = p$, $N_P(b) = q$, $N_P(a + b) = r$,
 $N_P(2a + b) = s$, $N_P(a + 3b) = 1$,
(v) $p = 2$, $q = 5$, $r = 3$.





$$\begin{aligned}
\text{APT}_P(a, b) = \Big\{ & (a, b), (a, a+b), (a+b, b), (a, 2a+b) \\
& (2a+b, a+b), (a+b, a+2b), (a+2b, b), \\
& (a, 3a+b), (3a+b, 2a+b), (2a+b, 3a+2b), \\
& (3a+2b, a+b), (a+b, 2a+3b), (2a+3b, a+2b), \\
& (a+2b, a+3b), (a+3b, b), (2a+b, 5a+3b), \\
& (5a+3b, 3a+2b), (3a+2b, 4a+3b), (4a+3b, a+b), \\
& (2a+b, 7a+4b), (7a+4b, 5a+3b), (5a+3b, 8a+5b), \\
& (8a+5b, 3a+2b), (2a+b, 9a+5b), (9a+5b, 7a+4b), \\
& (7a+4b, 12a+7b), (12a+7b, 5a+3b), \\
& (5a+3b, 13a+8b), (13a+8b, 8a+5b), \\
& (8a+5b, 11a+8b), (11a+8b, 3a+2b), \\
& (5a+3b, 18a+11b), (18a+11b, 13a+8b), \\
& (13a+8b, 21a+13b), (21a+13b, 8a+5b) \Big\}.
\end{aligned}$$