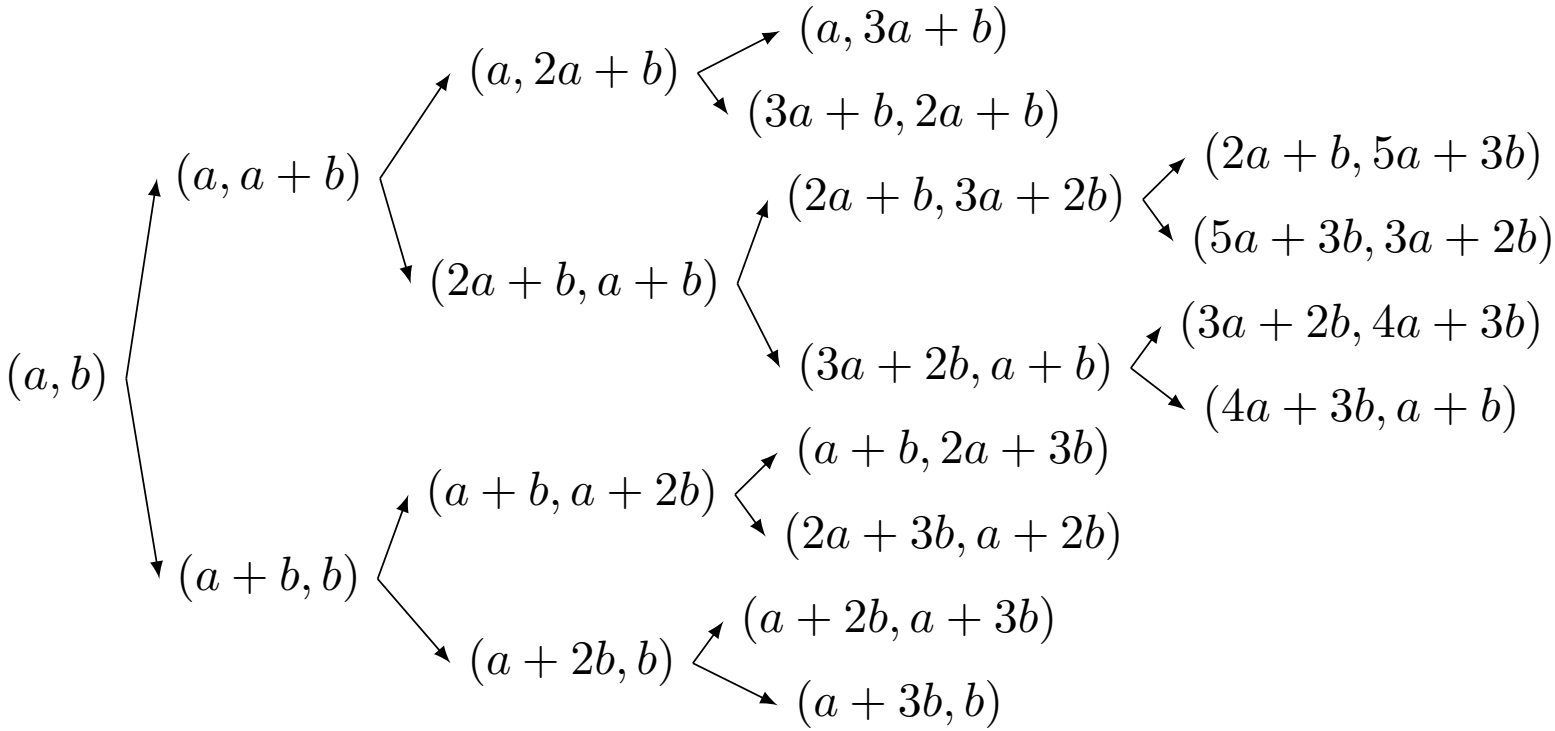
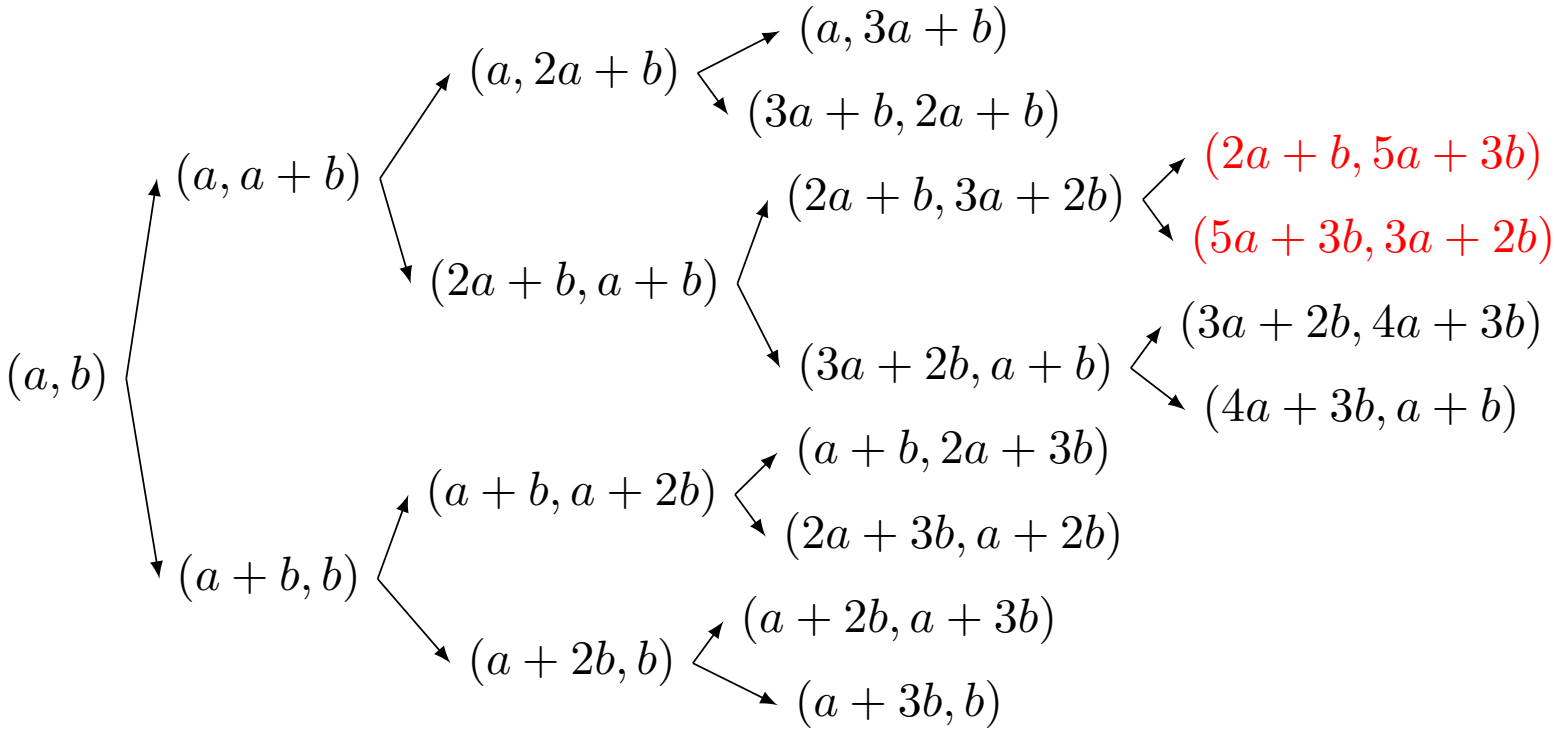
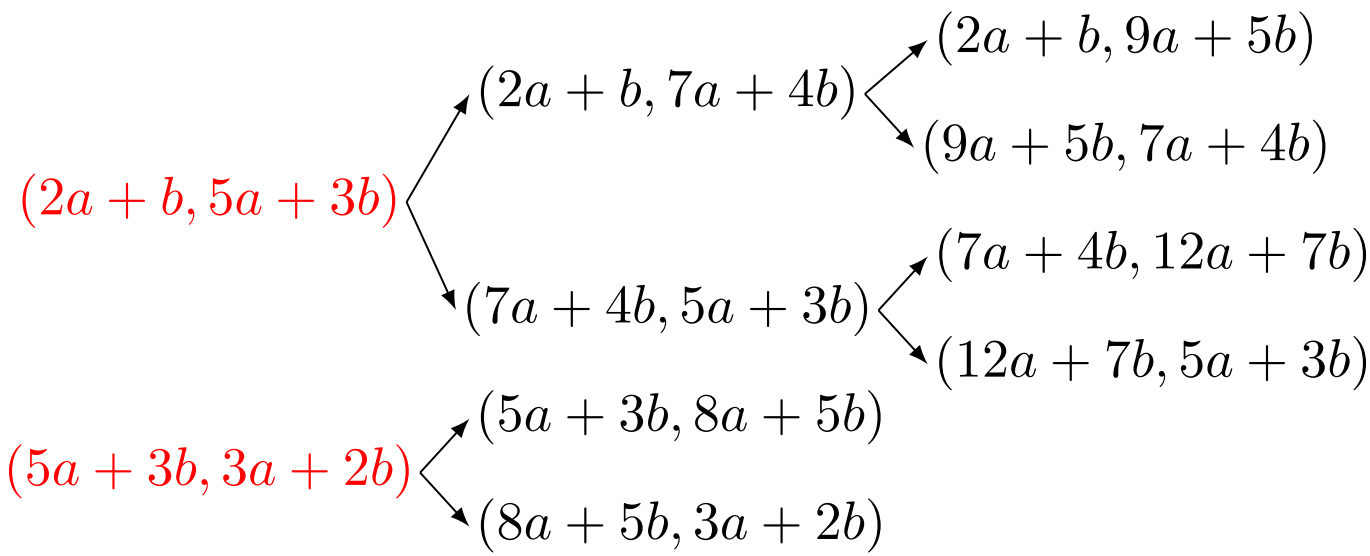
(7) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(2a+b) = s,\ N_P(a+2b) = ps,$
(i) $p = 2,\ q \neq 5.$



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

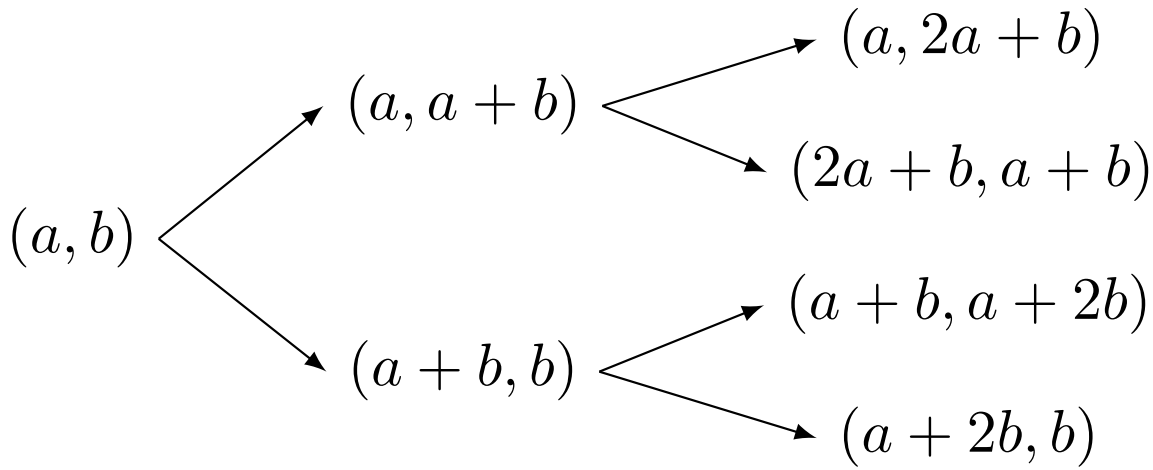
(7) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(2a+b) = s,\ N_P(a+2b) = ps,$
(ii) $p = 2,\ q = 5.$




$(2a+b, 5a+3b)$
$(2a+b, 7a+4b)$
$(2a+b, 9a+5b)$
$(9a+5b, 7a+4b)$
$(7a+4b, 5a+3b)$
$(7a+4b, 12a+7b)$
$(12a+7b, 5a+3b)$
$(5a+3b, 3a+2b)$
$(5a+3b, 8a+5b)$
$(8a+5b, 3a+2b)$

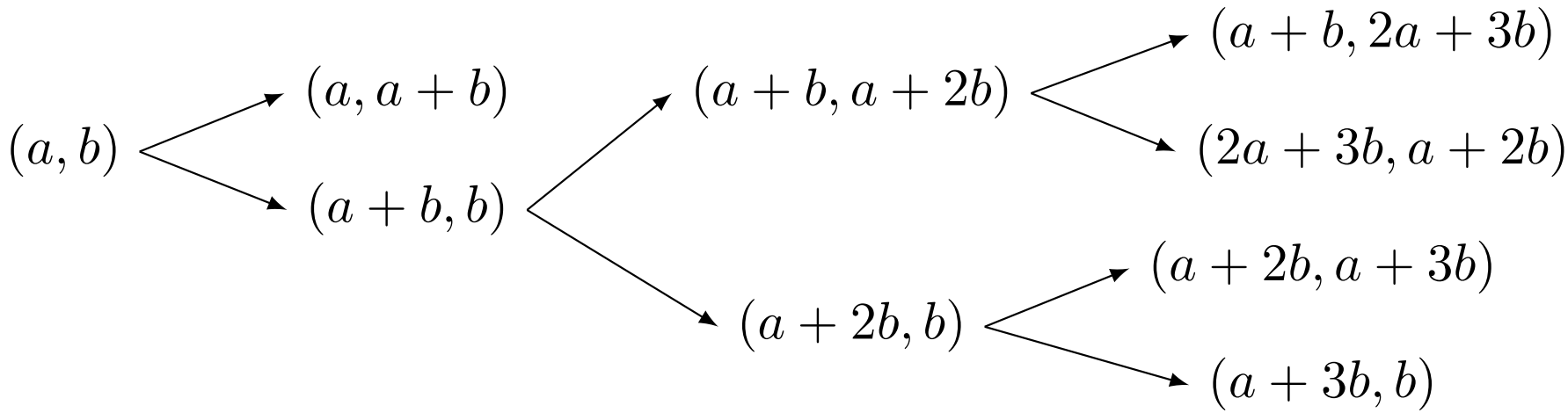
$$\begin{aligned}\mathrm{APT}_P(a,b) = \Big\{ & (a,b),\ (a,a+b),\ (a+b,b),\ (a,2a+b) \\ & (2a+b,a+b),\ (a+b,a+2b),\ (a+2b,b), \\ & (a,3a+b),\ (3a+b,2a+b),\ (2a+b,3a+2b), \\ & (3a+2b,a+b),\ (a+b,2a+3b),\ (2a+3b,a+2b), \\ & (a+2b,a+3b),\ (a+3b,b),\ (2a+b,5a+3b), \\ & (5a+3b,3a+2b),\ (3a+2b,4a+3b),\ (4a+3b,a+b),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

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



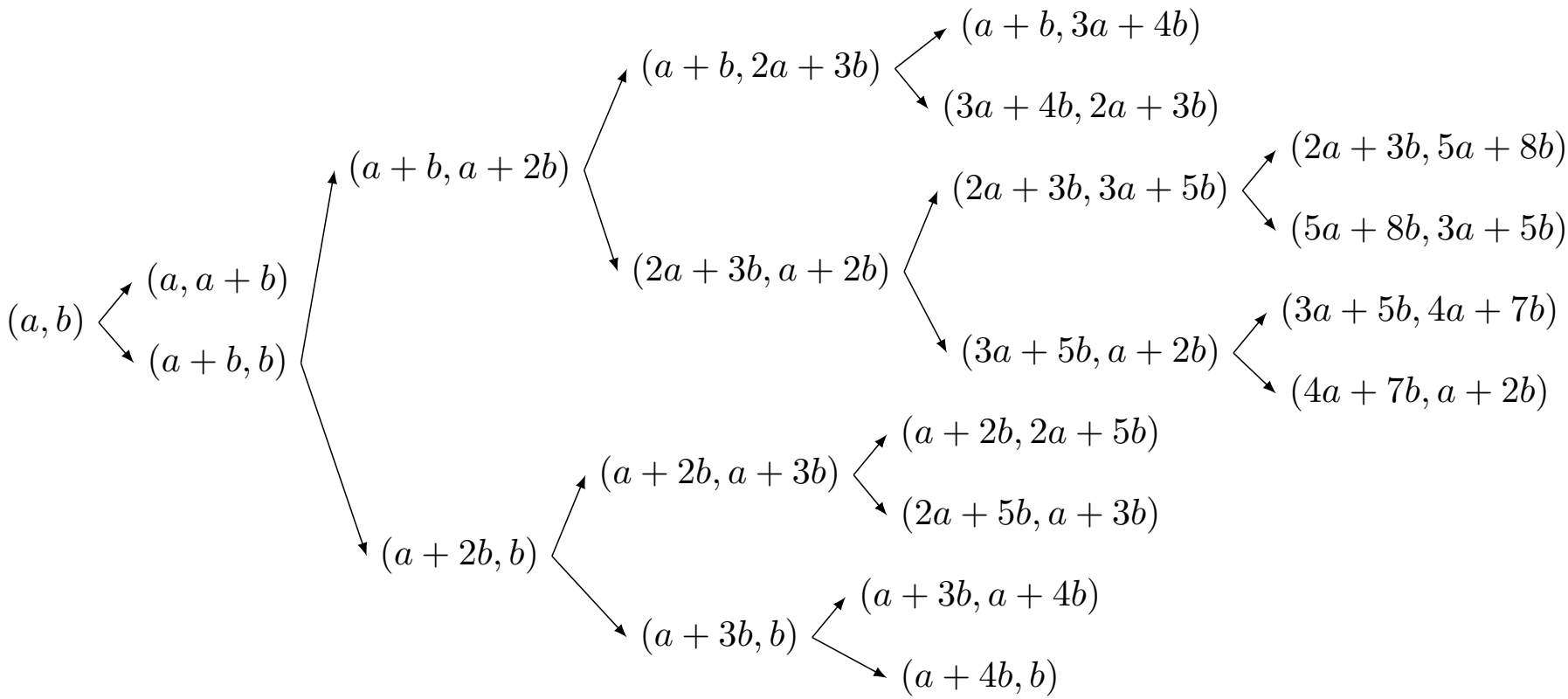
$$\mathrm{APT}_P(a,b) = \Big\{(a,b),\ (a,a+b),\ (a+b,b),\ (a,2a+b),\ (2a+b,a+b),\ (a+b,a+2b),\ (a+2b,b)\Big\}.$$

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



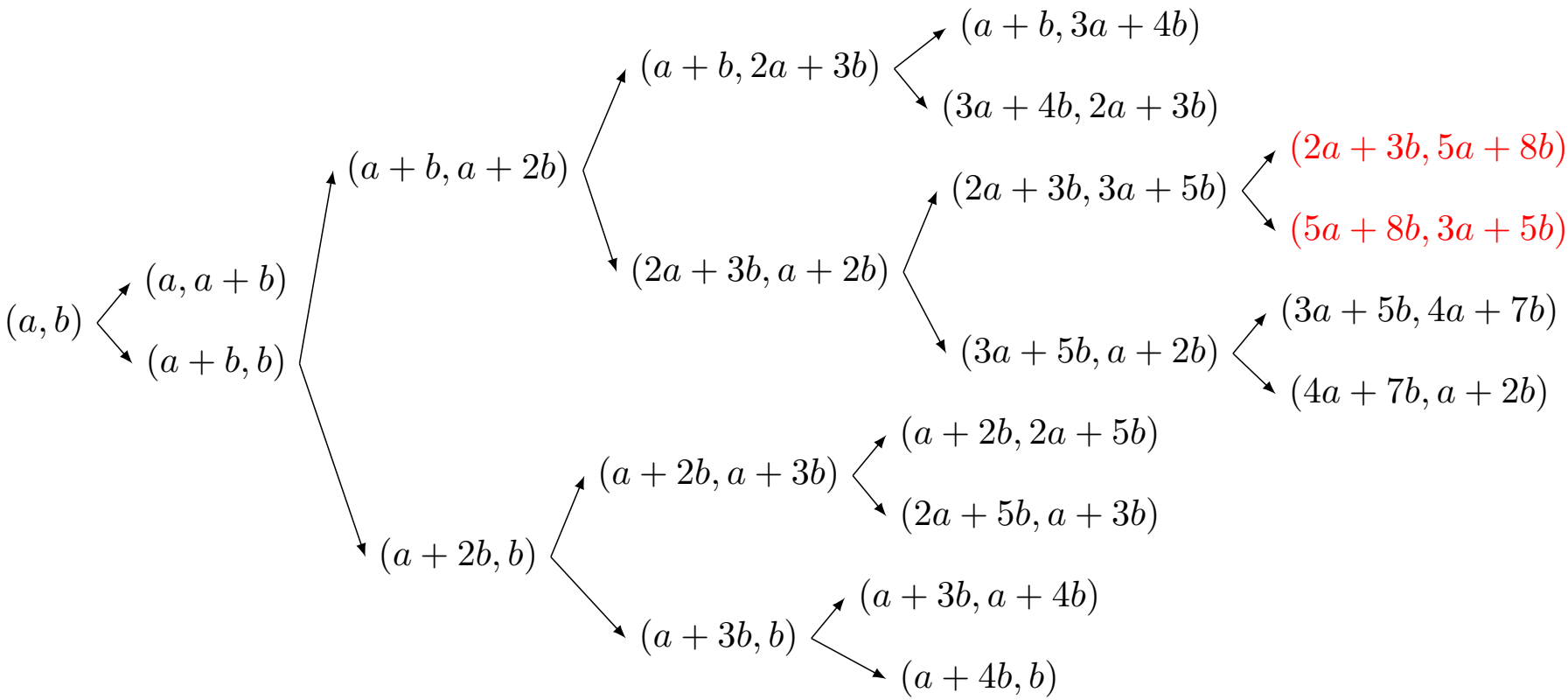
$$\mathrm{APT}_P(a,b) = \Big\{(a,b),\ (a,a+b),\ (a+b,b),\ (a+b,a+2b),$$
$$(a+2b,b),\ (a+b,2a+3b),\ (2a+3b,a+2b),$$
$$(a+2b,a+3b),\ (a+3b,b)\Big\}.$$

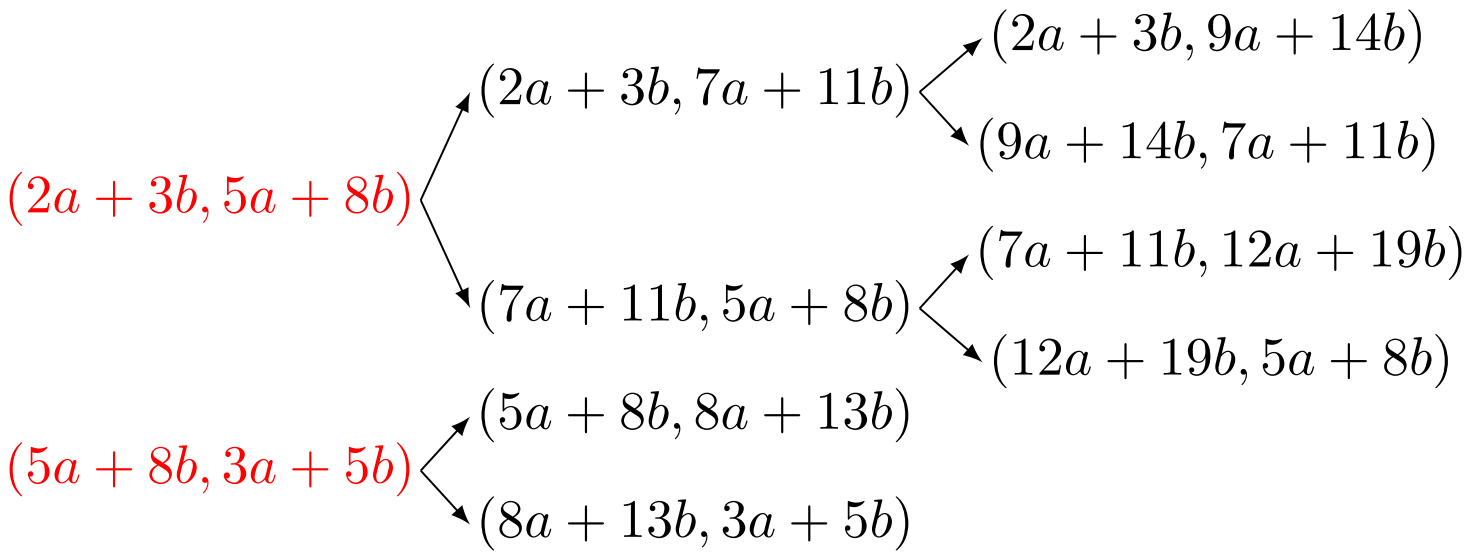
(9) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(a+2b) = s,\ N_P(2a+b) = 1,$
(ii) $p = 3,\ q \neq 5,\ r = 2.$



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

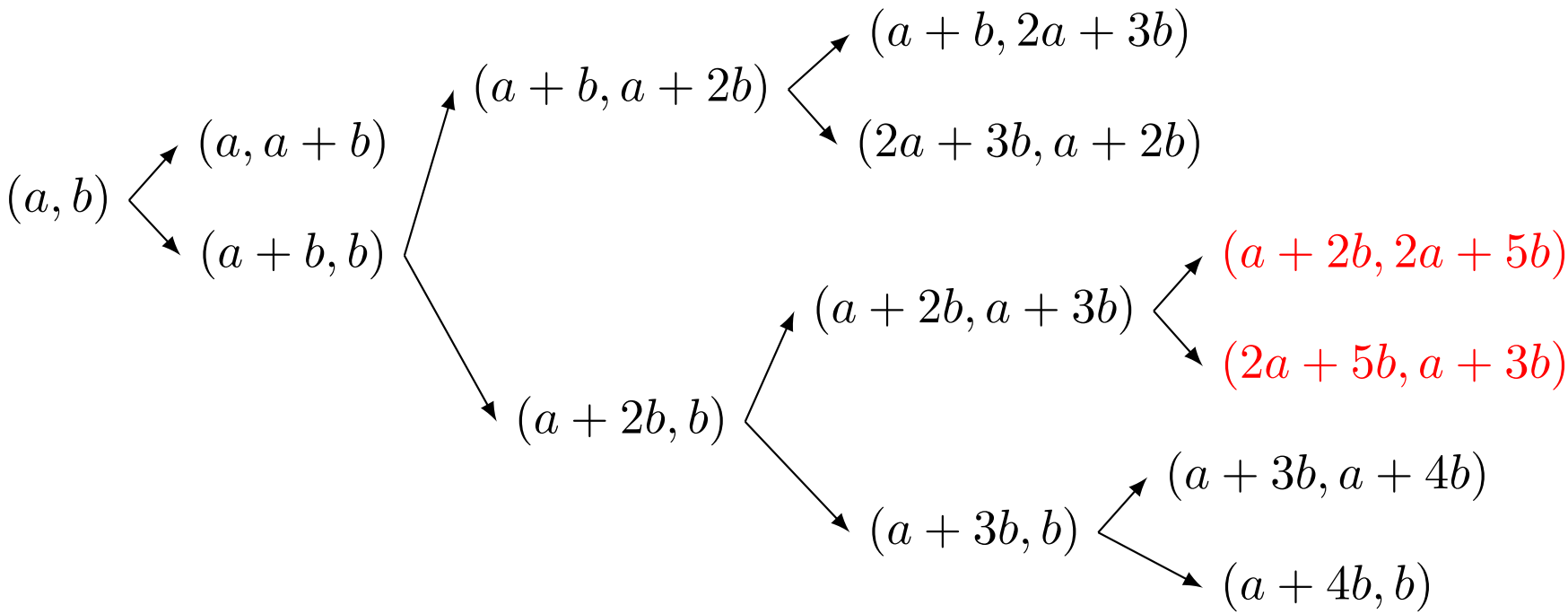
(9) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(a+2b) = s,\ N_P(2a+b) = 1,$
(iii) $p = 3,\ q = 5,\ r = 2.$

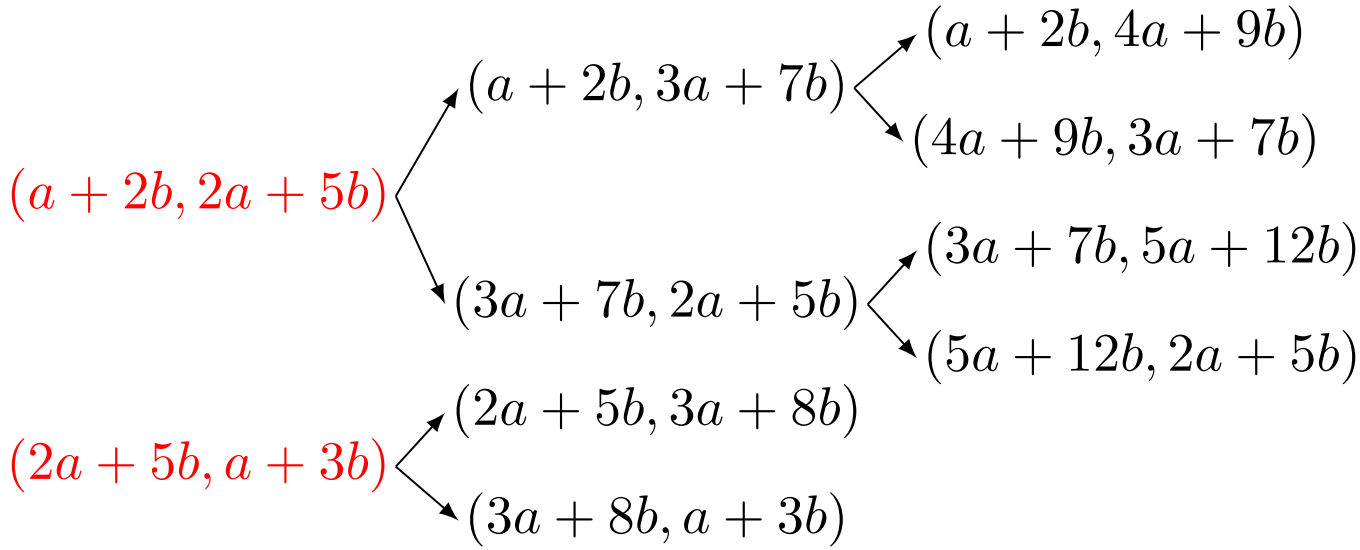



$(2a+3b, 5a+8b)$
$(2a+3b, 7a+11b)$
$(2a+3b, 9a+14b)$
$(9a+14b, 7a+11b)$
$(7a+11b, 5a+8b)$
$(7a+11b, 12a+19b)$
$(12a+19b, 5a+8b)$
$(5a+8b, 3a+5b)$
$(5a+8b, 8a+13b)$
$(8a+13b, 3a+5b)$

$$\begin{aligned}\mathrm{APT}_P(a,b) = \Big\{ & (a,b),\ (a,a+b),\ (a+b,b),\ (a+b,a+2b) \\ & (a+2b,b),\ (a+b,2a+3b),\ (2a+3b,a+2b), \\ & (a+2b,a+3b),\ (a+3b,b),\ (a+b,3a+4b), \\ & (3a+4b,2a+3b),\ (2a+3b,3a+5b),\ (3a+5b,a+2b), \\ & (a+2b,2a+5b),\ (2a+5b,a+3b),\ (a+3b,a+4b), \\ & (a+4b,b),\ (2a+3b,5a+8b),\ (5a+8b,3a+5b), \\ & (3a+5b,4a+7b),\ (4a+7b,a+2b),\ (2a+3b,7a+11b), \\ & (7a+11b,5a+8b),\ (5a+8b,8a+13b),\ (8a+13b,3a+5b), \\ & (2a+3b,9a+14b),\ (9a+14b,7a+11b), \\ & (7a+11b,12a+19b),\ (12a+19b,5a+8b)\Big\}.\end{aligned}$$

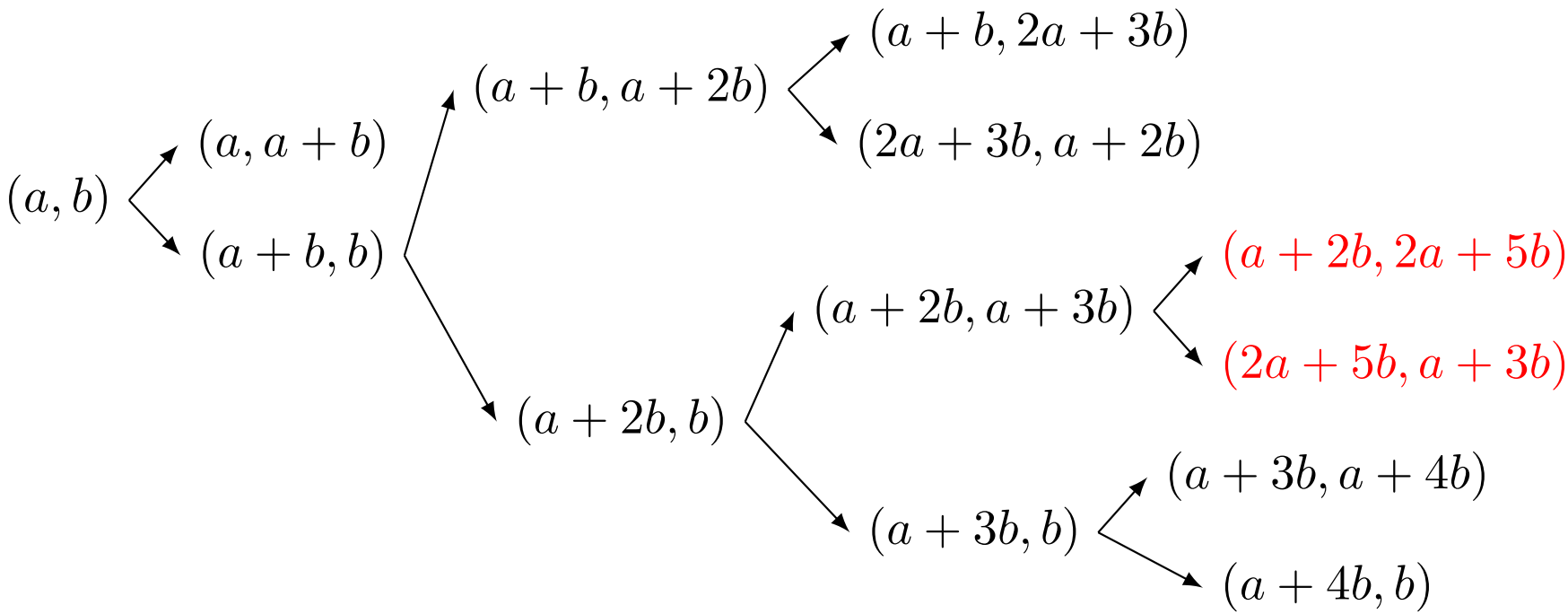
(9) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(a+2b) = s,\ N_P(2a+b) = 1,$
(iv) $p = 5,\ q \neq 3,\ r = 2.$

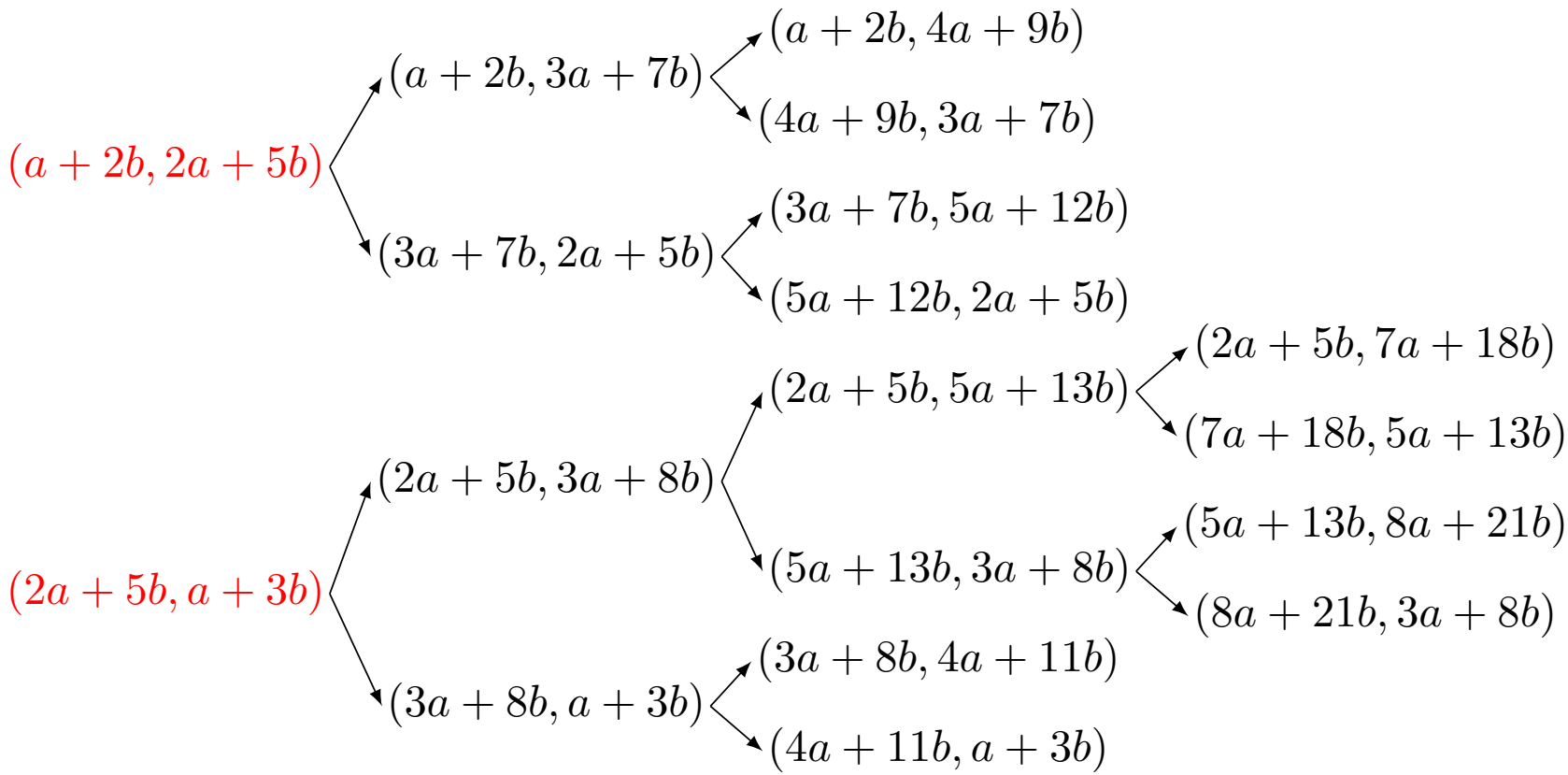



$(a+2b, 2a+5b)$
$(a+2b, 3a+7b)$
$(a+2b, 4a+9b)$
$(4a+9b, 3a+7b)$
$(3a+7b, 2a+5b)$
$(3a+7b, 5a+12b)$
$(5a+12b, 2a+5b)$
$(2a+5b, a+3b)$
$(2a+5b, 3a+8b)$
$(3a+8b, a+3b)$

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

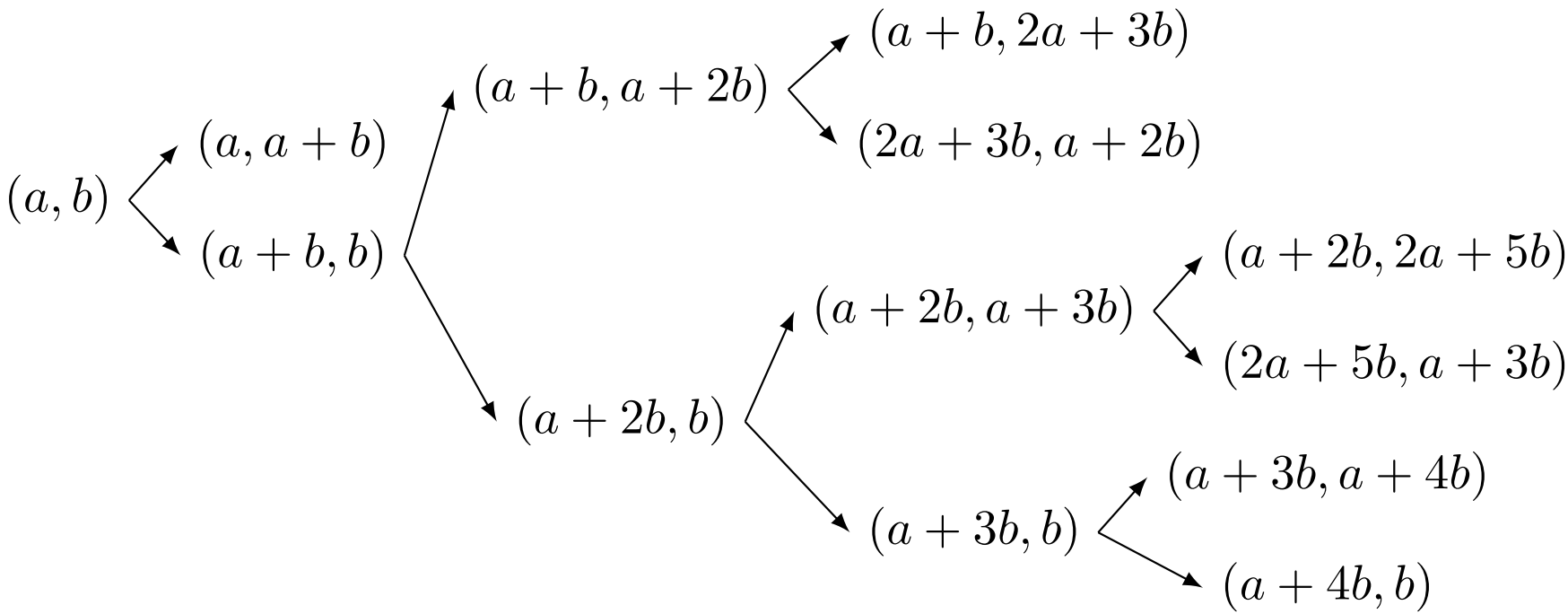
(9) $P = \{p, q, r, s\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a+b) = r,$
$N_P(a+2b) = s,\ N_P(2a+b) = 1,$
(v) $p = 5,\ q = 3,\ r = 2.$




$(a+2b, 2a+5b)$
$(a+2b, 3a+7b)$
$(3a+7b, 2a+5b)$
$(a+2b, 4a+9b)$
$(4a+9b, 3a+7b)$
$(3a+7b, 5a+12b)$
$(5a+12b, 2a+5b)$
$(2a+5b, a+3b)$
$(2a+5b, 3a+8b)$
$(3a+8b, a+3b)$
$(2a+5b, 5a+13b)$
$(5a+13b, 3a+8b)$
$(3a+8b, 4a+11b)$
$(4a+11b, a+3b)$
$(2a+5b, 7a+18b)$
$(7a+18b, 5a+13b)$
$(5a+13b, 8a+21b)$
$(8a+21b, 3a+8b)$

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

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



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