The case $|P| = 3$.

(1) $P = \{p, q, r\},\ N_P(a) = pq,\ N_P(b) = r.$

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

(3) $P = \{p, q, r\},\ N_P(a) = p,\ N_P(b) = q,\ N_P(a + b) = r.$

(i) $p = 2,$

(ii) $p, q \neq 2.$