$$s = \frac{p_y - q_y}{p_x - q_x},\ r_x = s^2 - p_x - q_x,\ r_y = s(p_x - r_x) - p_y$$

$$s = \frac{3(p_x^2 + a)}{2p_y},\ r_x = s^2 - 2p_x,\ r_y = s(p_x - r_x) - p_y$$