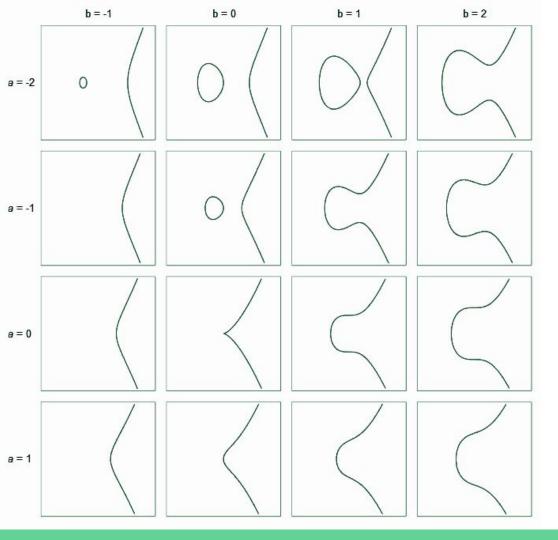
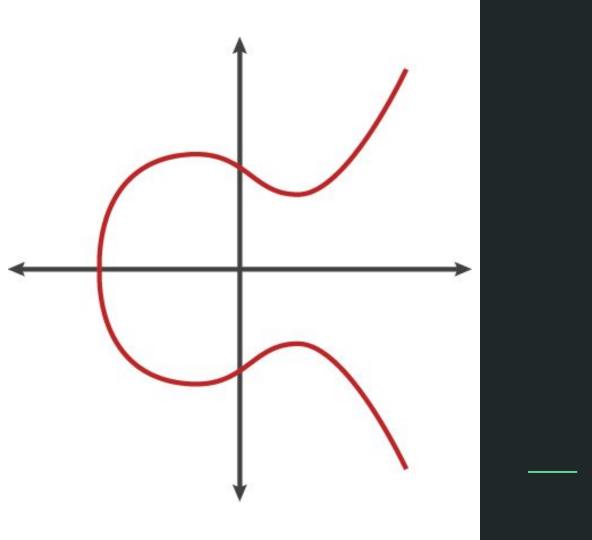
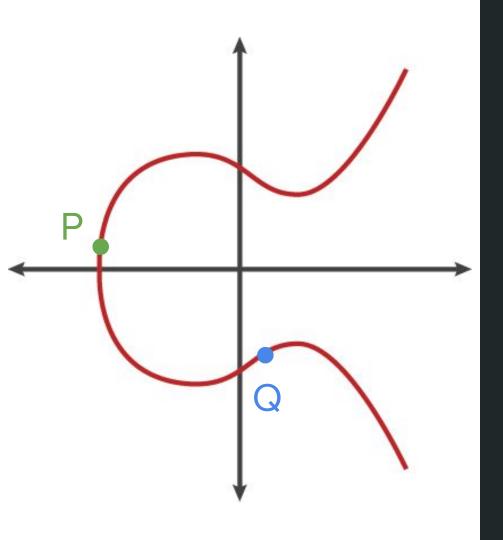
Elliptic curves and cryptography Johanna Loyer

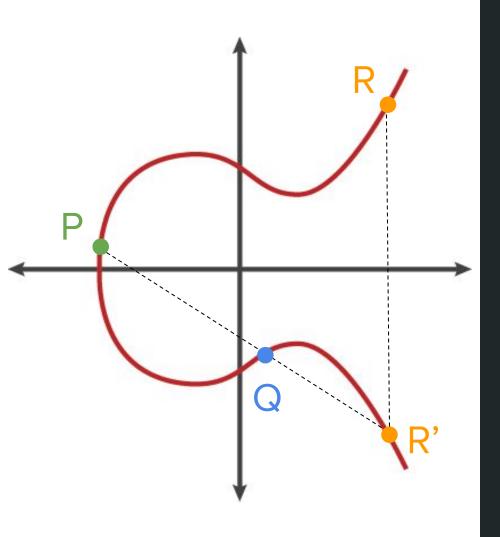
$y^2 = x^3 + ax + b$



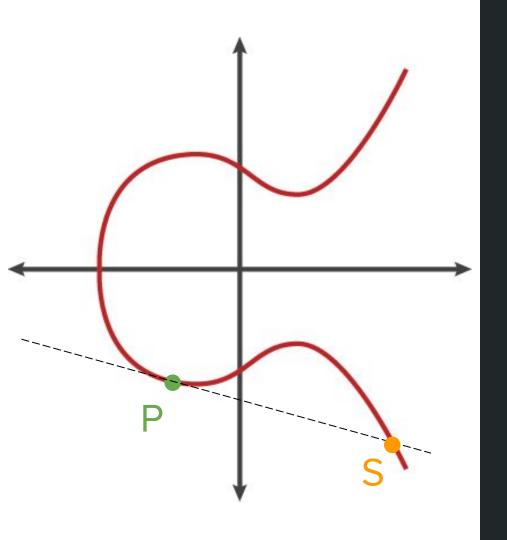




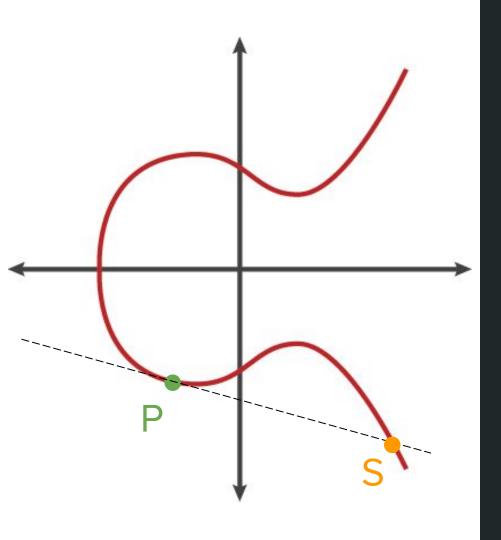
P + Q



$$P + Q = R$$



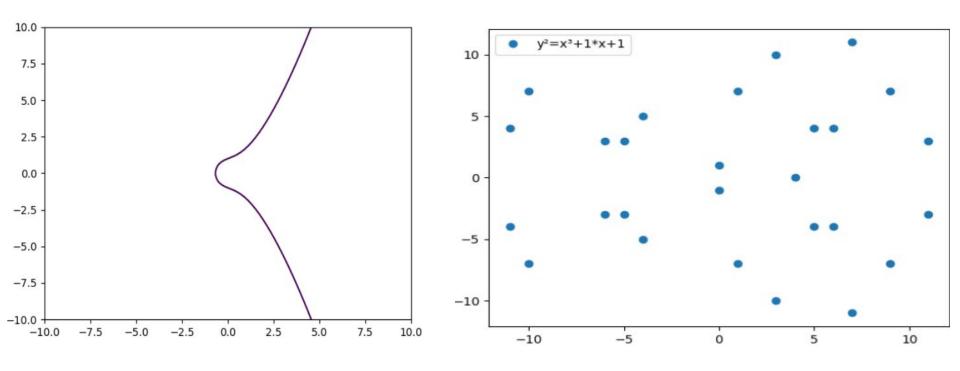
2.P = S

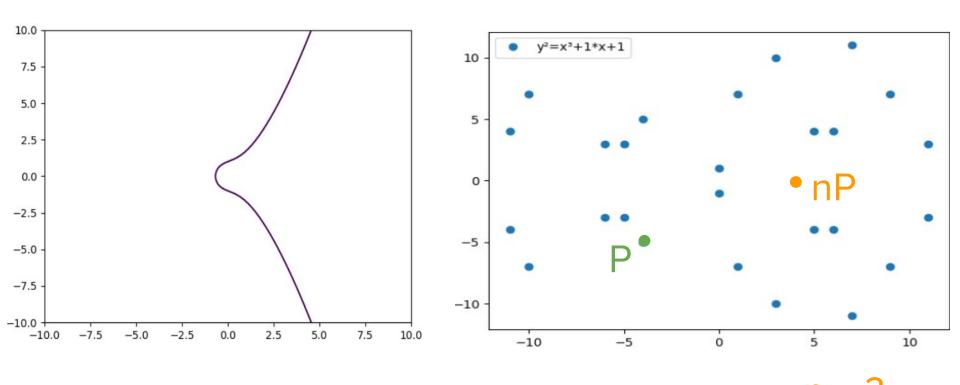


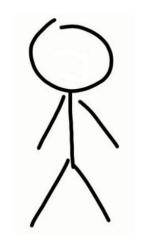
2.P = S

$$nP = P + P + ... + P$$

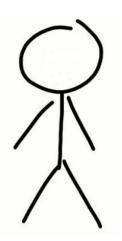
 $n \text{ times}$







Alice a, P



Bob b

