Roll: 2105009

## #Offline 3

## 1 bit full subtractor

	ρ.	Q	R	D	В
	0	0	0	0	0
	Ö	0	7	1	1
	<i>/</i> 0	1	0	1	1.
	0	1	1	0	1
	1	٥	٥	1	0
	1	0	1	٥	0
	1	1	0	0	0
	1	1	1	1	1

Here,

P= Minuend

Q = Subtraend

R = Previous Borrow

D = Difference

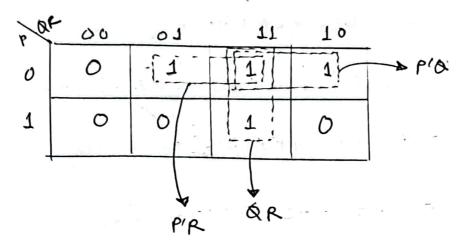
B = Output borrow



D= Pa(R'+ P'a(R+PaR+P'aR'

= 
$$R'(P \oplus Q) + R(\overline{P \oplus Q})$$

= POQOR



· B=P'Q+P'R+QR