## BJT Bias Base Bias (H.6)

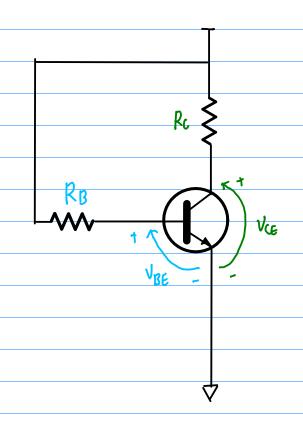
20170425

Copyright (c) 2016 - 2017 Young W. Lim.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

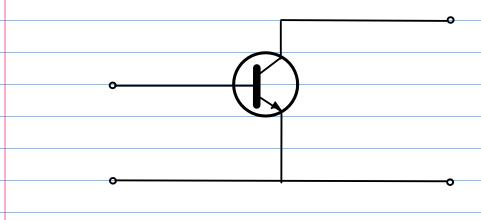
·	References
	rereres
	Based
	[1] Floyd, Electronic Devices 7th ed [2] Cook,
	[2] en.wikipedia.org
	·

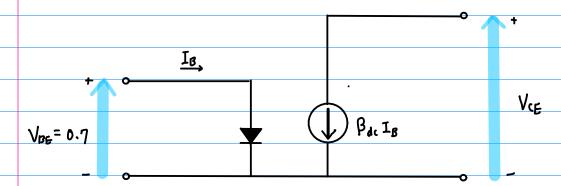
## Base Bias

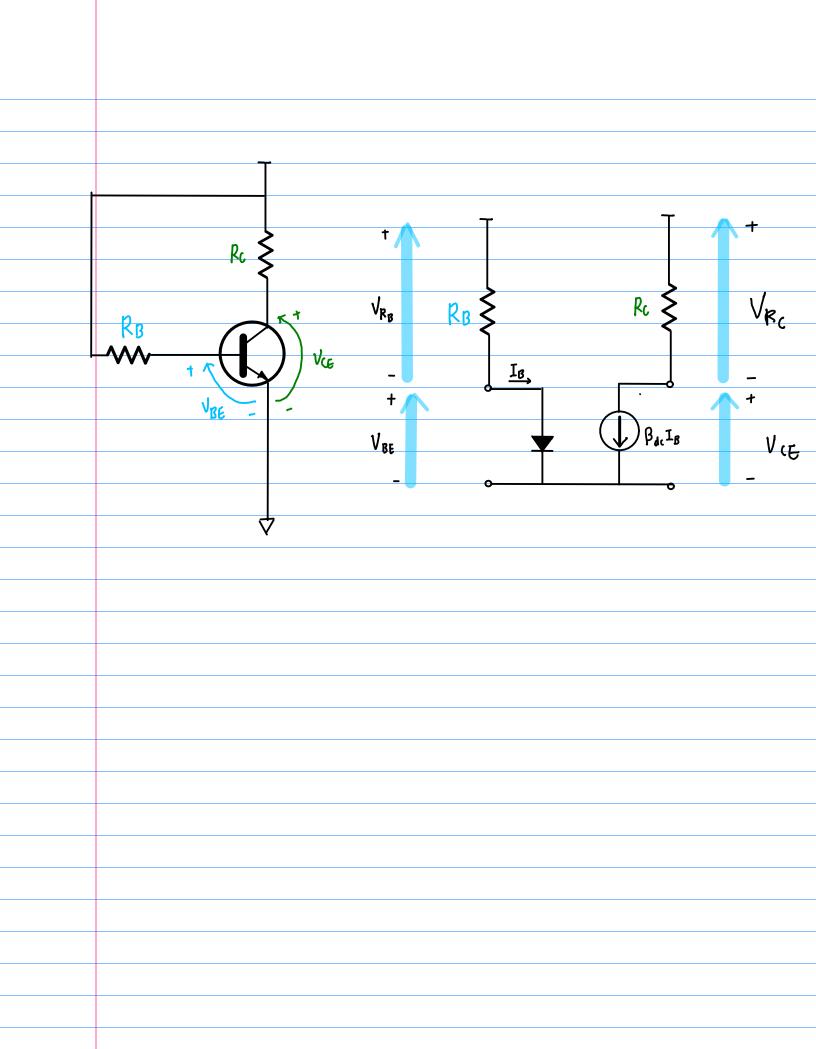


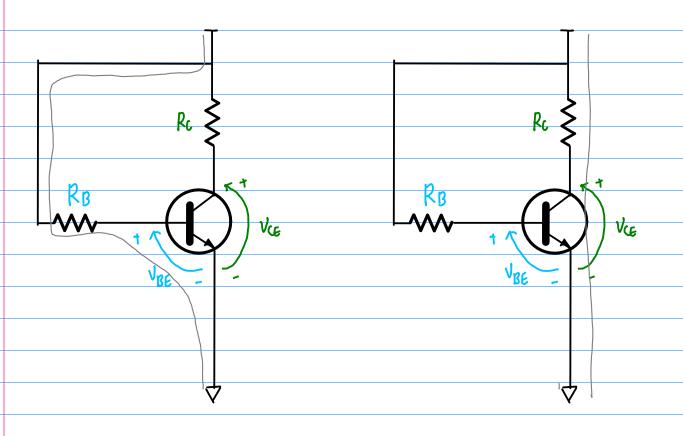
$$I_{c} = \beta_{Dc} \left( \frac{V \alpha - V B \epsilon}{R_{B}} \right)$$

## Transistor Approximation









$$V_{CC} - V_{R_B} - V_{DE} = 0$$

$$V_{CC} - I_B R_B - V_{BE} = 0$$

$$IB = \frac{\sqrt{cc - \sqrt{BE}}}{KB}$$

$$V_{u} - I_{c}R_{c} - V_{cE} = 0$$

$$I_{C} = \beta_{PC} I_{B} = \beta_{PC} \left( \frac{\sqrt{cc - \sqrt{bc}}}{R_{B}} \right)$$

