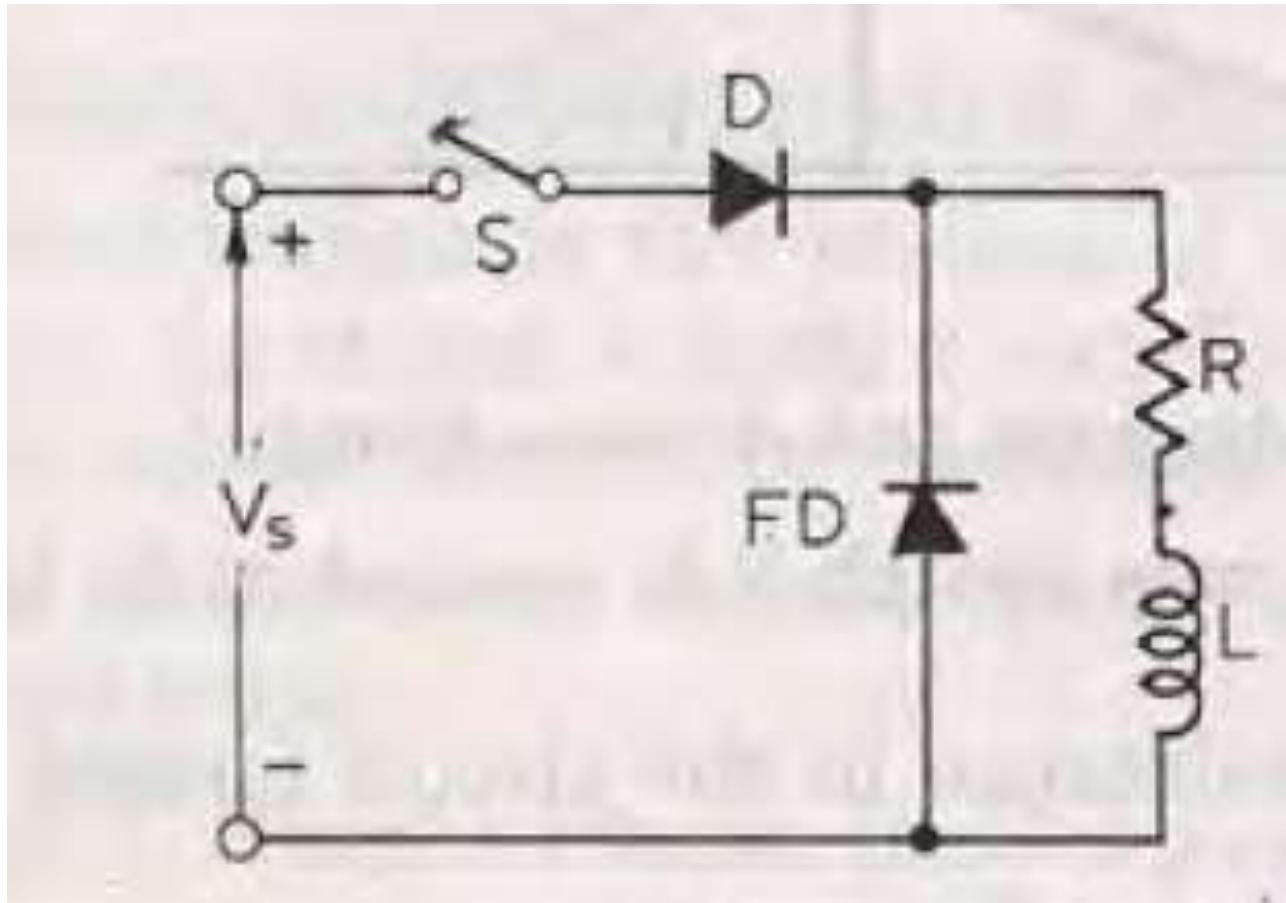
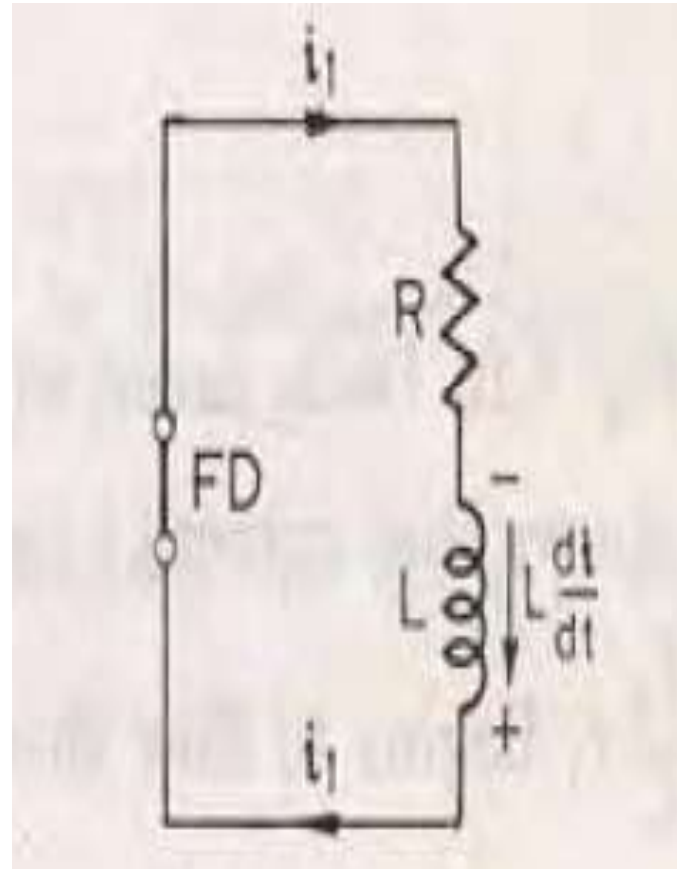
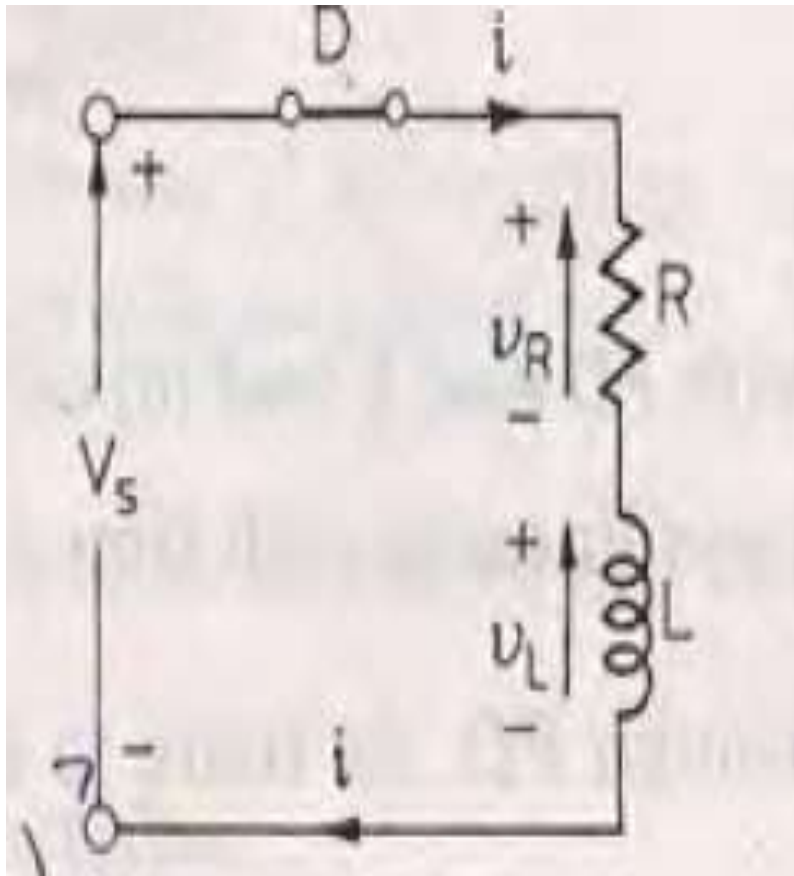


# Free Wheeling Diode

# Free Wheeling Diode

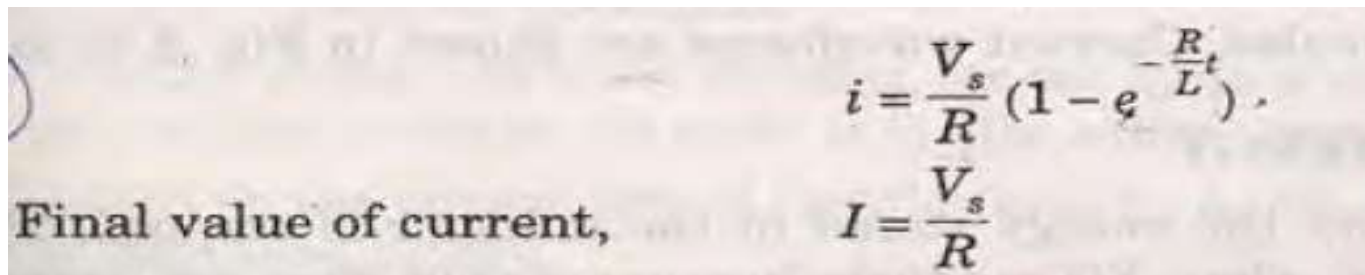


# FWD



# Explanation

Mode I

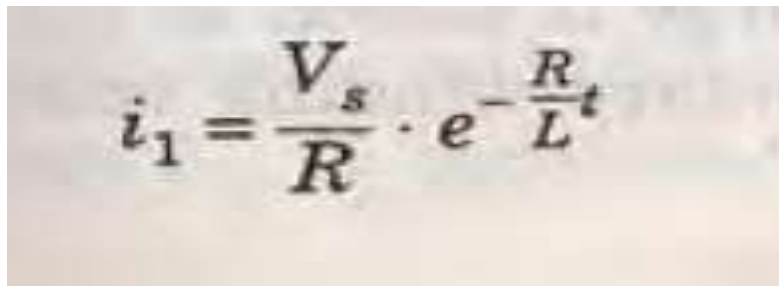


The image shows handwritten mathematical expressions on a piece of paper. The top equation is  $i = \frac{V_s}{R} (1 - e^{-\frac{R}{L}t})$ . Below it, the text "Final value of current," is written, followed by the equation  $I = \frac{V_s}{R}$ .

$$i = \frac{V_s}{R} (1 - e^{-\frac{R}{L}t})$$

Final value of current,  $I = \frac{V_s}{R}$

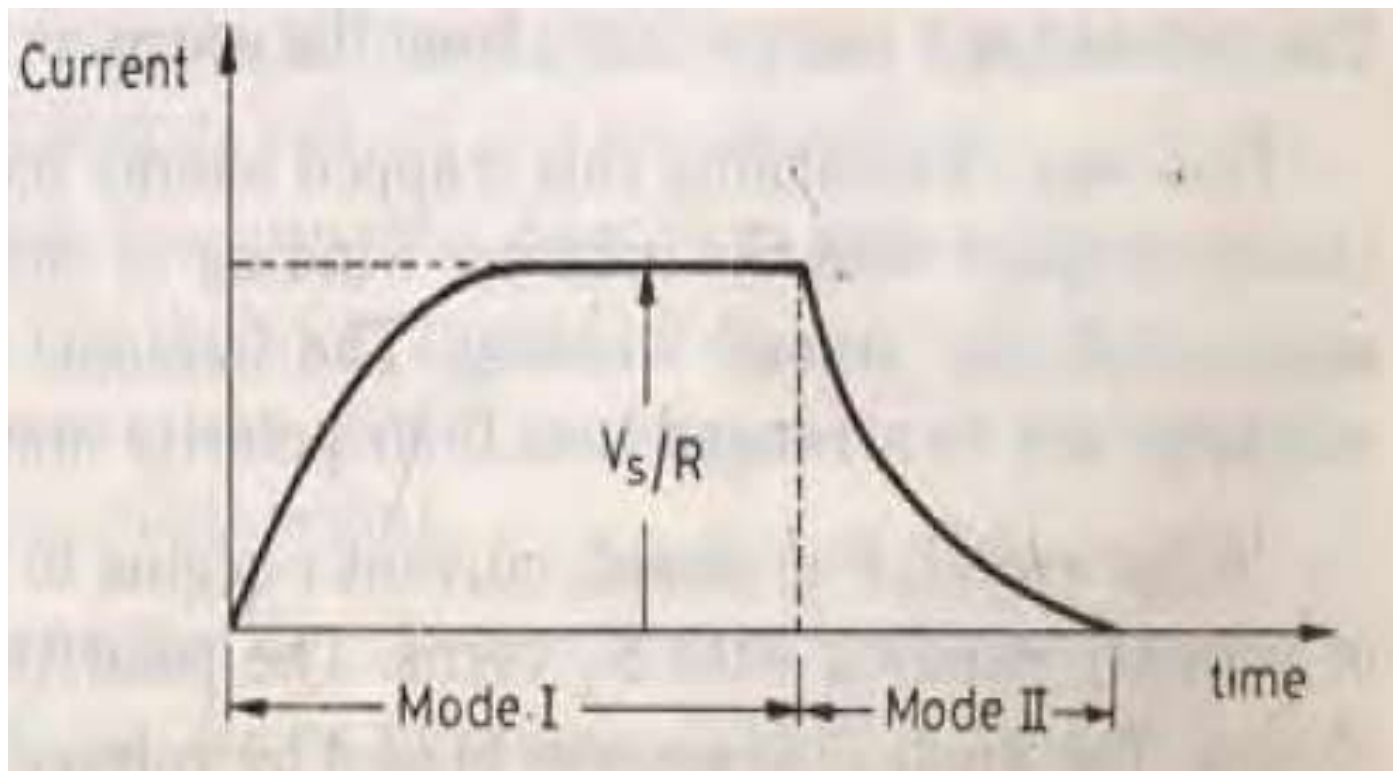
Mode II



The image shows a handwritten mathematical equation on a piece of paper:  $i_1 = \frac{V_s}{R} \cdot e^{-\frac{R}{L}t}$ .

$$i_1 = \frac{V_s}{R} \cdot e^{-\frac{R}{L}t}$$

# The Graph



# Another Case

$$V_s = L \frac{di}{dt}$$
$$i = \frac{V_s}{L} t$$

