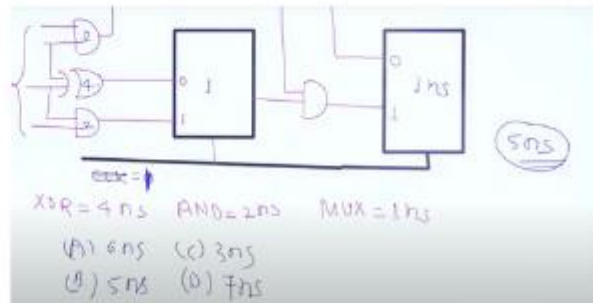
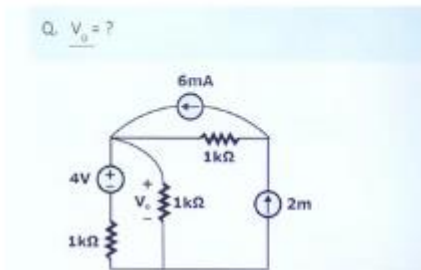


GATE 2021 ECE Memory Based Questions – Grade Up

[GATE 2021 ECE Exam Analysis](#)

[GATE 2021 ECE Cutoff](#)

Question	Question
2x2 non singular matrix with repeated eigen values is given as $\{x-30 \ 3.0 \ 4.0\}$ where X is a real positive number. What is the value of X - Answer 10	$(1 \ 2 \ 3 \ 5)_x = (3 \ 0 \ 33)_y$ What is the value of X and Y? Answer - X = 8 & Y = 6
$V_o=?$ Answer -1Volt	The admittance parameters are - Answer - $Y_{11}=2, Y_{12}=4, Y_{21}=-1, Y_{22}=2$
$P/W + W/P = 3 \ P^2/Q^2 + Q^2/P^2 =$ Answer - 7	



Answer – 1 VOLT

Answer - A

Q. Ideal operational amplifier, V_{sat} is fixed.
 $V_{sat} = 1V$ for $V_{in} = 0.1V$
 $V_{sat} = 6V$ for $V_{in} = 1V$
 Where V_{sat} is measured across R_1 connected at the output of the operational amplifier, the value of $R_1/R_2 = ?$

A. 2.860
 B. 3.285
 C. 3.825
 D. 5.555

Answer - D

Q. An asymmetrical periodic pulse train V_m of 10V amplitude with $T_{on} = 1ms$ and off time $T_{off} = 1\mu s$ is applied to the shown in figure. The DI ideal is ideal.

