## Answer on Question \#50859, Physics, Electric Circuits

a) Calculate the minimum slew rate of the op-amp used for obtaining 2 MHz frequency, $\pm 10 \mathrm{~V}$ amplitude triangular wave signal at the output.

## Answer:

The slew rate for a given amplitude $U$ and frequency $f$ is
slewrate $=2 \pi f U=2 \pi \cdot 2 \cdot 10^{6} \cdot 10=4 \pi \cdot 10^{7} \mathrm{~V} / s \approx 125.6 \mathrm{~V} / \mu s$
A minimum slew rate of 125.6 volts per microsecond is required.

