Md. Shahrian Khan Limon ID: 19101944 sec:08 CSE350 Lab 5 Limited Strander Strander Experiment: Analysis of triangular wave generator. constructed light some fire C through the reast +31 + 310 (80% and for easy on old ? soop as don't of shot good of the color date when the Schmitt circuit is on, the output (point A) turns positive, or regulive saturated voltage. When A point recorner positive, the current flows through the capacitor C through the resistor R.I. When etcharge begins to store up in capacitor, voltage of the both edges of capacitor, voltage of the both edges of capacitor begins to go up and the voltage of the output (point B) of the integration circuit talls gradually.

The C point of I(1's positive input terminal is the one that has broken up the circuit and with the resistors. R2 and R3, the voltage difference between H and B points can be measured.

when the voltage of the B point to begins to drop, so does the voltage of the C point.

When the voltage of the C point falls

below OV, the voltage of the output (A point) of the transister falls below OV. The shmill circuit rapidly goes toward the as negative, for the (point's voltage to drop. below OV.

The requirement is R2) R3.

Then the flow of the current to the capacitor C reverses and the current flows through the direction of the A point through the resistor R1. With this the voltage of the B point rises oradually. when the voltage at c point exceeds OV, the Schmitt circuit's but put (A point) quickly transforms into a plus. This shifts the B point in the negative direction For the voltage of the C point to exceed OV, the condition R2 DR3 is required. Finally, it repeats this action, A point gives square wave of output and B point gives the trjangular waveform output.

3. No, the integrator circuit cannot be implemented with an sinductor. It is because here in this circuits the process works by changing the and forthis it needs currents flows voltage up and down and capacitor only resists the No Itugen but by capacitor current flows and stores up and some times it makes a point positive and negative. By this process, we get triangular wave from as output which we camt get by inductor as inductor

Loop is out triog) and I is applied and in

resists current flowing a mi

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Fire to respect this action is post

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	Frequency (theoritical), min	
	we know, theory (theory tical), and	muitinate
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	lover coidean 2 of	10×10 ³
-	(01710) = 15 Bail 25 067 in	
	1805(11 000)	(A)
Walter Constitution of the	Theoritical Experimental Frequency (H2) Time period_T(ms)	Experimental Frequency, F (Hz)
	156.25 6.50	$\frac{1}{T} = \frac{1}{6.50 \times 16^3}$
		=153.846

