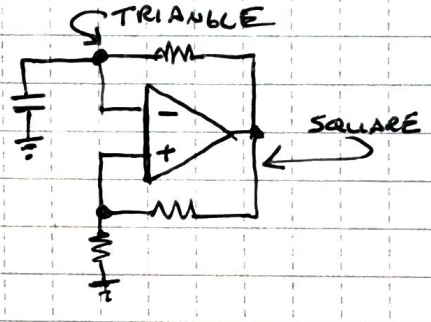
CIRCUIT FUN: THE TWIN-TEE OSCILLATOR

+ ONLY R's & C's (NO INDUCTORS)
+ SINUSOIDAL OUTPUT

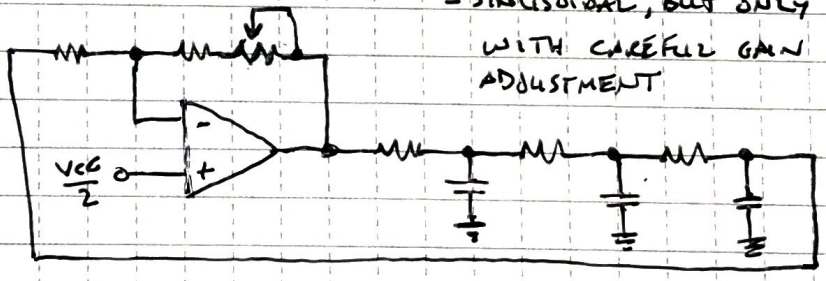
- NOT EASILY TUNABLE.
- SOME MINOR TRIMMING FOR LOWEST DISTORTION

OTHER "RC" OP AMP BASED OSCILLATORS

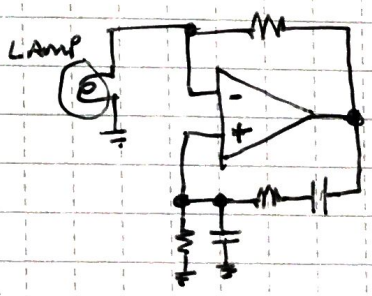
- RELAXATION OSCILLATOR
  - NOT SINUSOIDAL



- RC PHASE SHIFT OSCILLATOR
  - SINUSOIDAL, BUT ONLY WITH CAREFUL GAIN ADJUSTMENT

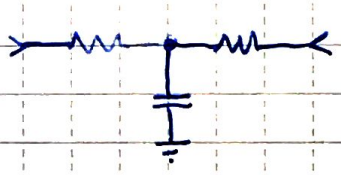


- WIEN-BRIDGE OSCILLATOR
  - SINUSOIDAL, BUT NEEDS SPECIAL GAIN CONTROL FOR LOW DISTORTION
    - LAMP
    - AGC w/ FET, ETC.

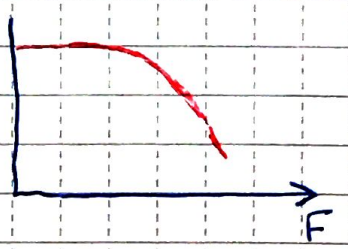


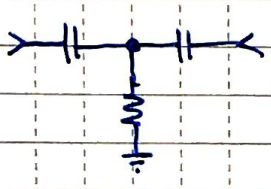
1 SQUARE = _____

THE TWIN-TEE NETWORK

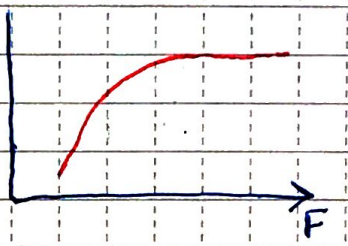


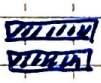
LOW-PASS NETWORK

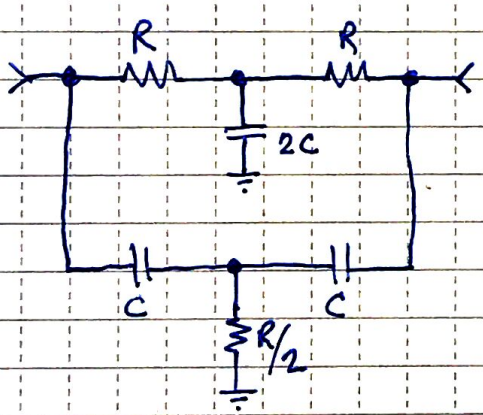




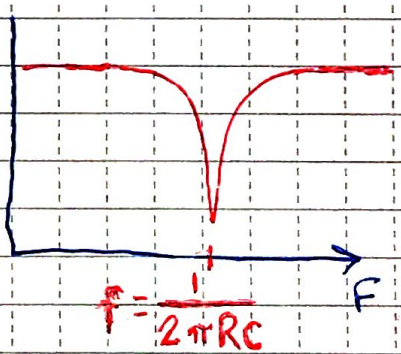
HIGH-PASS NETWORK







NOTCH FILTER

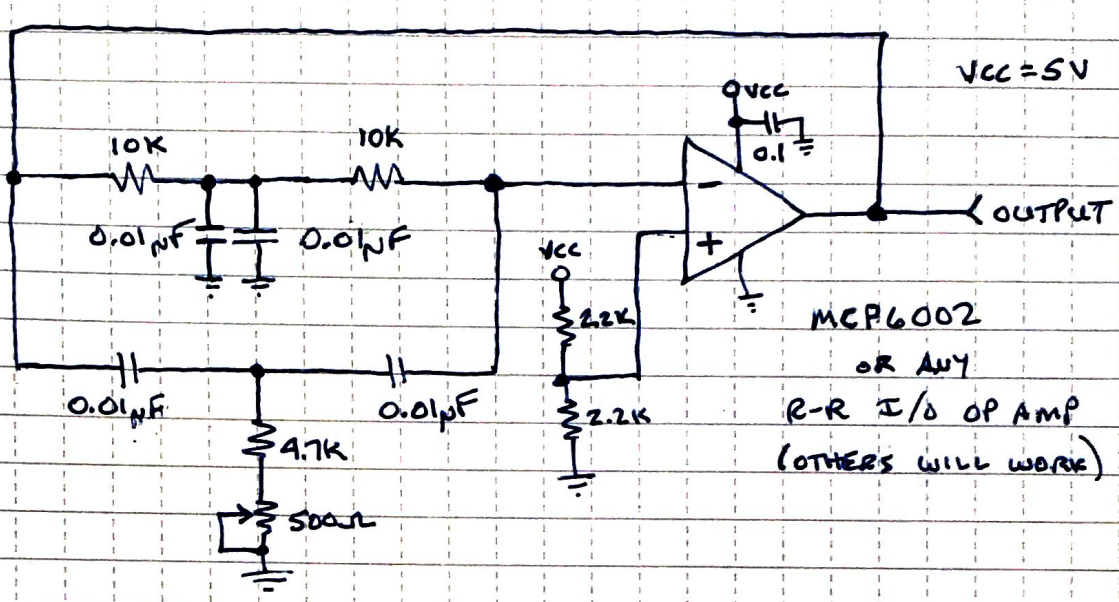


1 SQUARE = _____

W2AEW
(3)

TWIN-TEE OP AMP OSCILLATOR

- PUT TWIN-TEE "NOTCH" IN FEEDBACK LOOP
  (MAKES IT A "PEAKING" CIRCUIT)



- EASY TO GET << 1% THD

1 SQUARE = _____