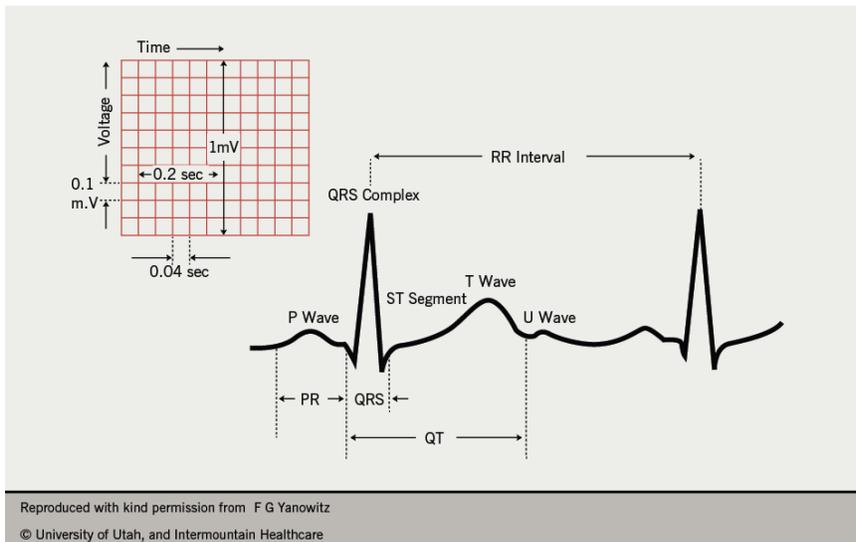
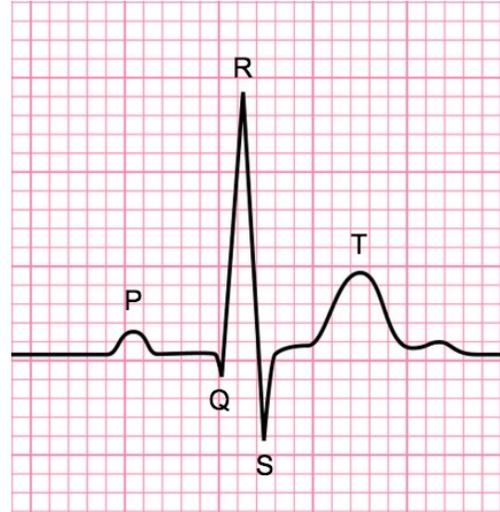
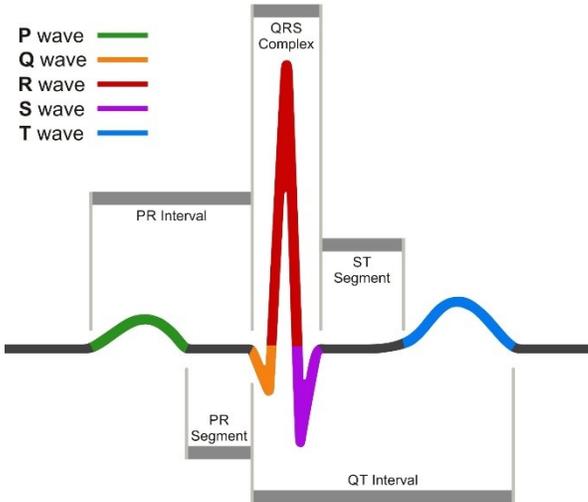


The EKG waveform consists of:

- P Wave: Represents atrial depolarization
- QRS: Represents ventricular depolarization
- T Wave: Represents ventricular repolarization



- 1 small square on an ECG trace (at 25 mm/s speed) = 0.04 s
- PR interval 0.11–0.20 seconds (3–5 small squares)
- QRS complex 0.06–0.10 seconds (1.5–2.5 small squares)
- QT interval 0.36–0.44 (9–11 small squares).

Six Basic Steps for Rhythm Interpretation

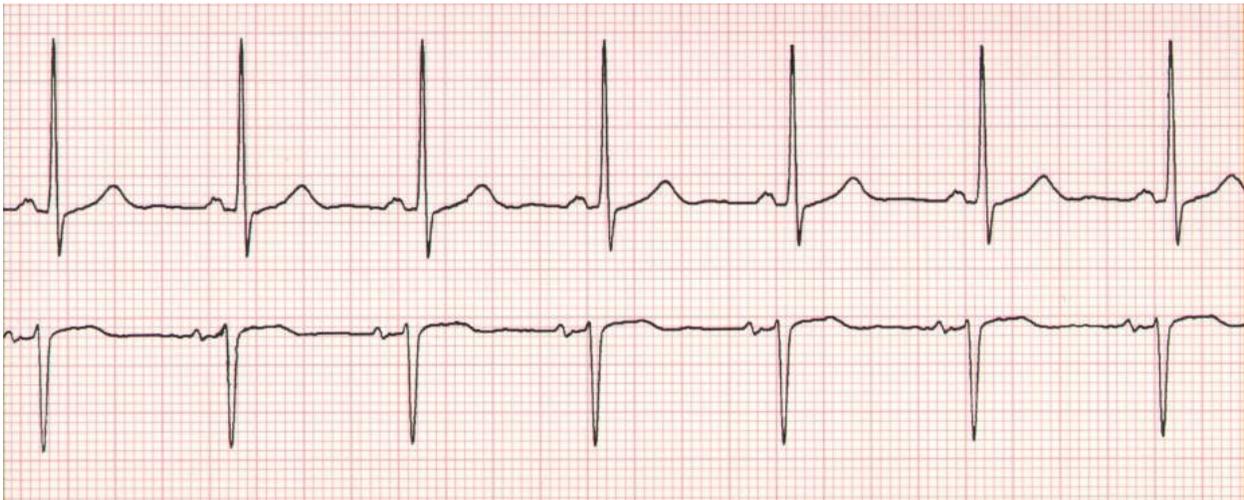
1. Rate: (Calculate the heart rate (HR) or note the HR from the monitor)
2. Regularity: (Measure the regularity or rhythm of the R waves)
3. P-wave Examination: Is there one P wave before each QRS? (there should be)
4. P to R Interval: (Measure the P to R interval - Is it within normal limits? It is consistent?)
5. QRS Width: (Measure the duration of the QRS complex)
6. Rhythm Interpretation

N321 Adult Health EKG Practice

Please assume these are 6s strips

Please determine heart rate, irregular or regular rhythm, P wave before QRS, PR interval, QRS interval

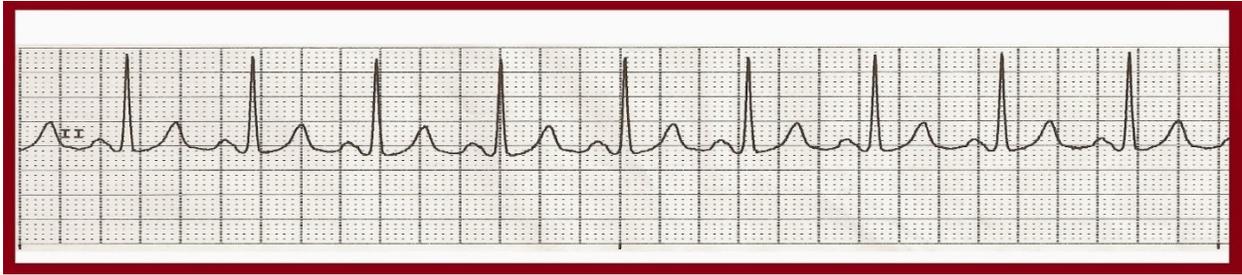
Then answer if Normal sinus rhythm, Sinus Bradycardia, Sinus Tachycardia, Asystole



1. Heart Rate 70 Regular or irregular R P wave before each QRS yes

Between PR (0.12-0.20) 0.14 QRS 0.04-0.10 0.08

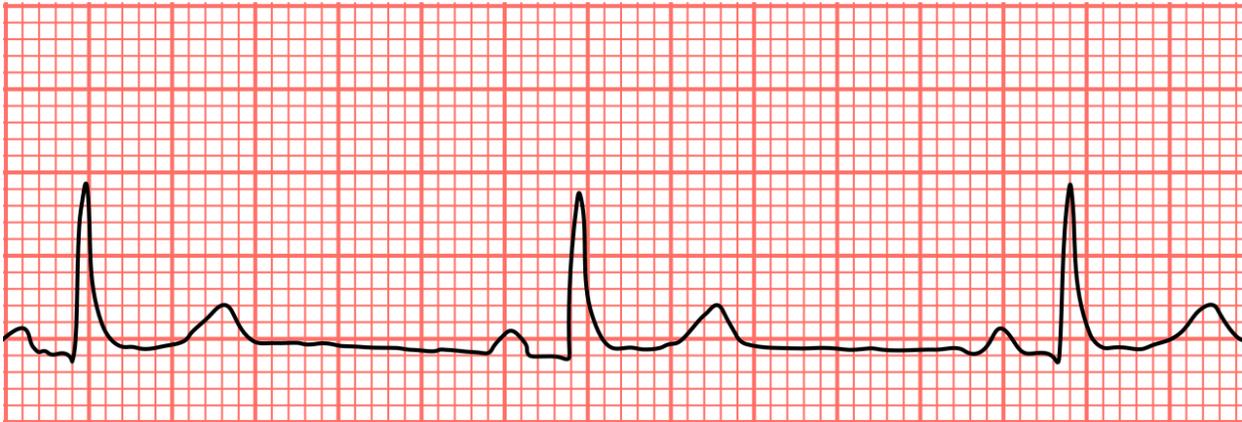
Answer: normal sinus



2. Heart Rate 90 Regular or irregular regular P wave before each QRS yes

Between PR (0.12-0.20) 0.16 QRS 0.04-0.10 0.08

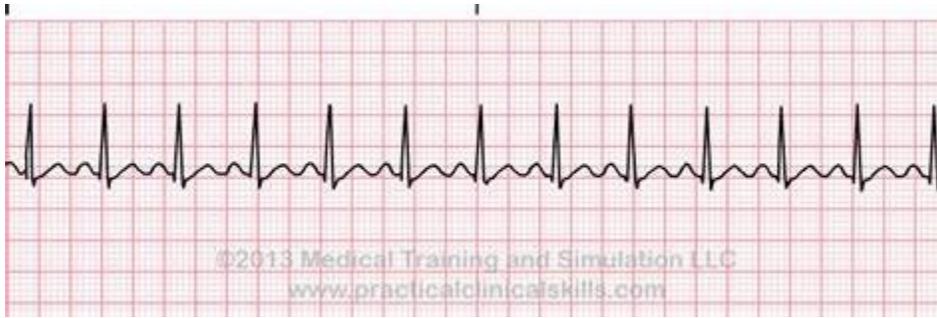
Answer: normal sinus



3. Heart Rate 30 Regular or irregular regular P wave before each QRS yes

Between PR (0.12-0.20) 0.18 QRS 0.04-0.10 0.10

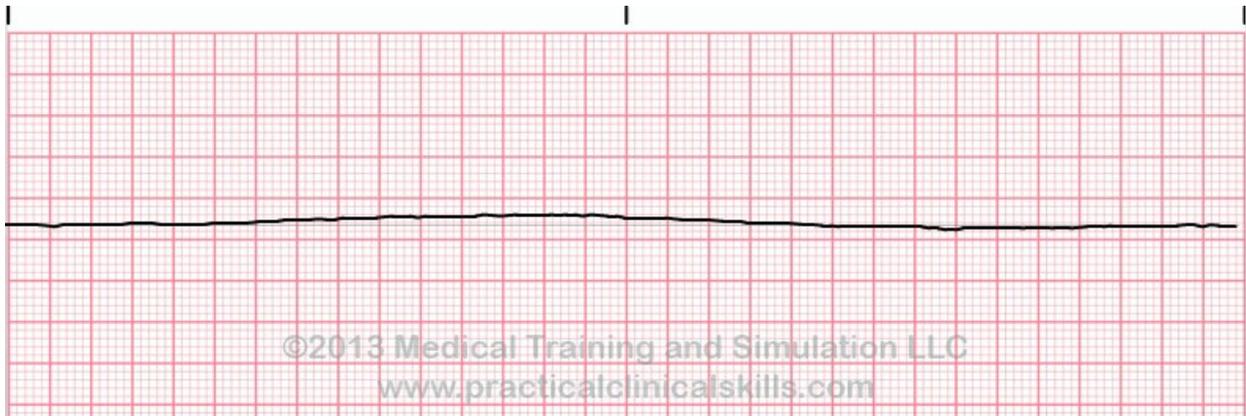
Answer: sinus bradycardia



4. Heart Rate 130 Regular or irregular regular P wave before each QRS yes

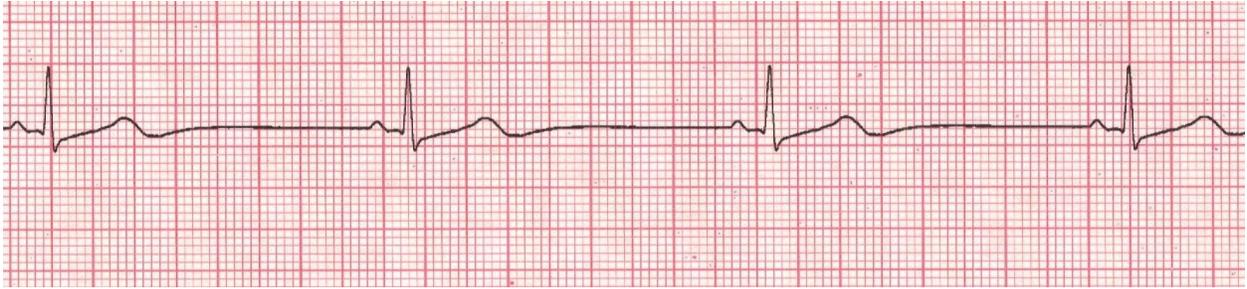
Between PR (0.12-0.20) 0.16 QRS 0.04-0.10 0.08

Answer: sinus tachycardia



5. Heart Rate 0 Regular or irregular n/a P wave no

Answer: asystole



6. Heart Rate _____ 40 _____ Regular or irregular _____ regular _____ P wave before each QRS _____ yes _____

Between PR (0.12-0.20) _____ 0.16 _____ ORS 0.04-0.10 _____ 0.08 _____

Answer: _____ sinus bradycardia _____



7. Heart Rate _____ 140 _____ Regular or irregular _____ regular _____ P wave before each QRS _____ yes _____

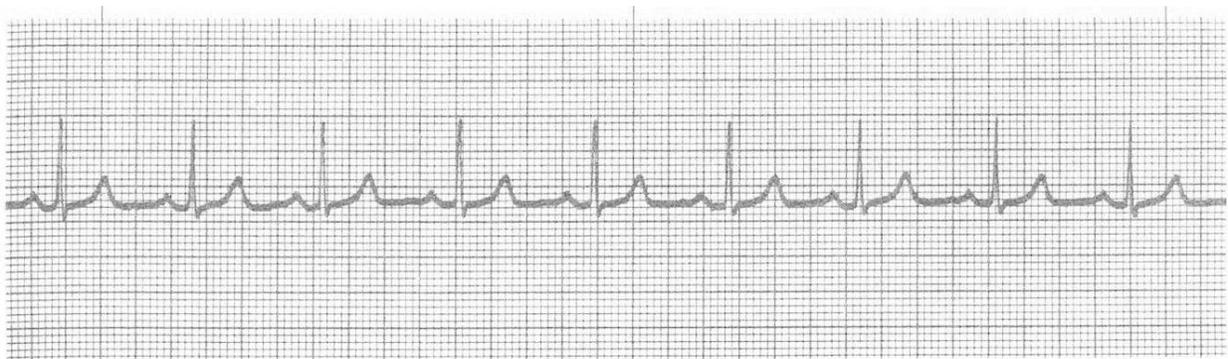
Between PR (0.12-0.20) _____ 0.16 _____ ORS 0.04-0.10 _____ 0.08 _____

Answer: _____ ST _____



8. Heart Rate _____ Regular or irregular _____ irregular _____ P wave
 _____no_____

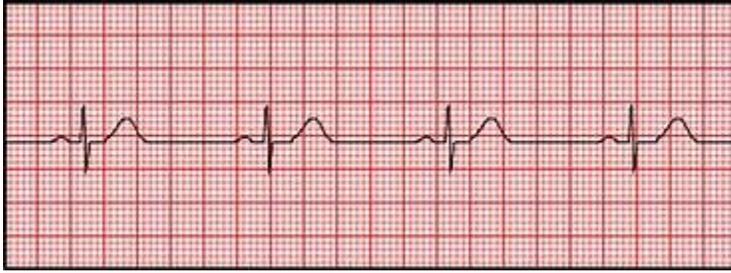
Answer: _____ asystole _____



9. Heart Rate _____ 90 _____ Regular or irregular _____ regular _____ P wave
 before each QRS _____yes_____

Between PR (0.12-0.20) _____ 0.20 _____ QRS 0.04-0.10 _____ 0.04 _____

Answer: _____ normal sinus _____



10. Heart Rate _____ 40 _____ Regular or irregular _____ regular _____ P wave before each QRS __yes__

Between PR (0.12-0.20) _____ 0.16 _____ QRS 0.04-0.10 _____ 0.06 _____

Answer: _____ SB _____