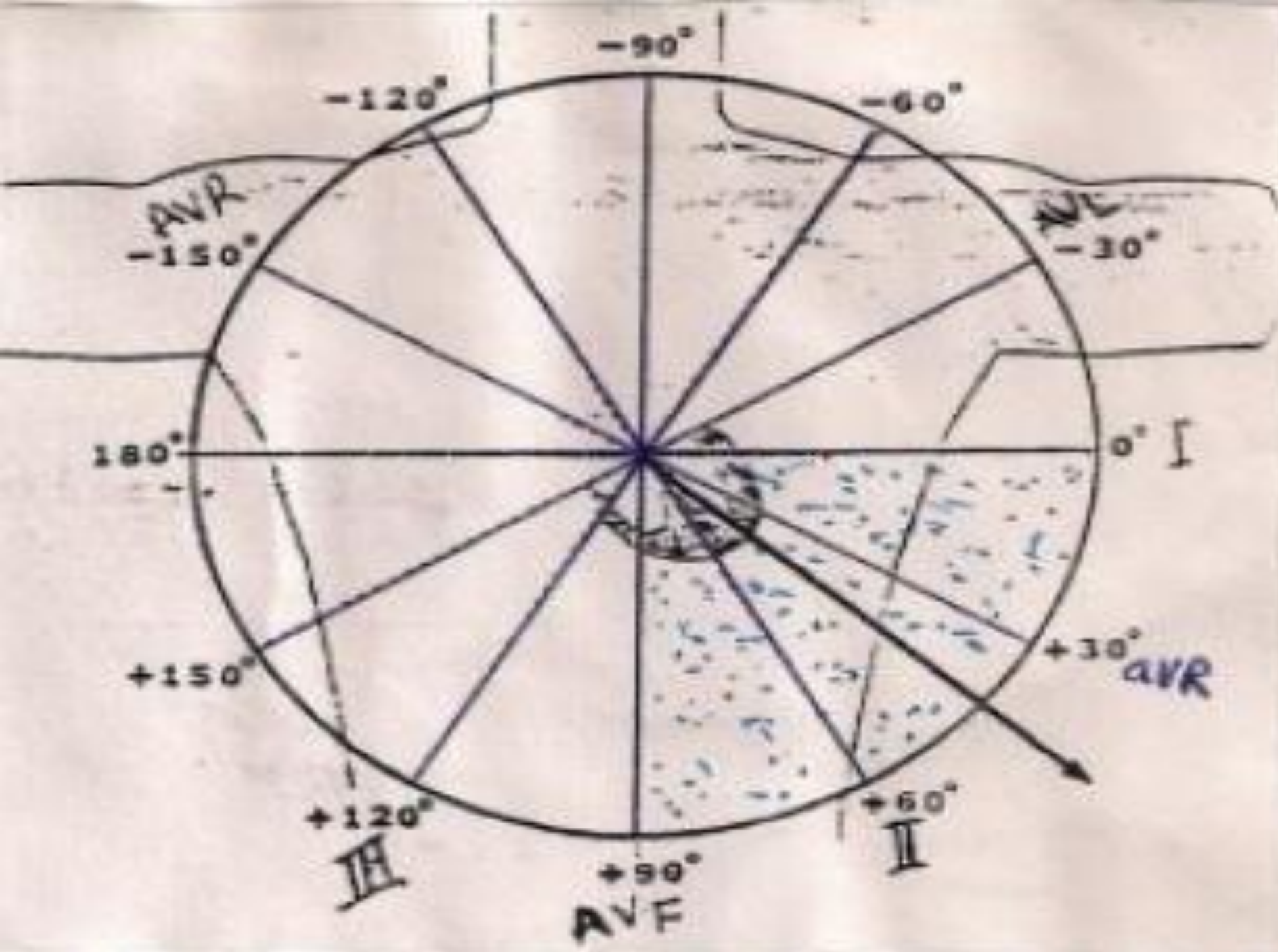


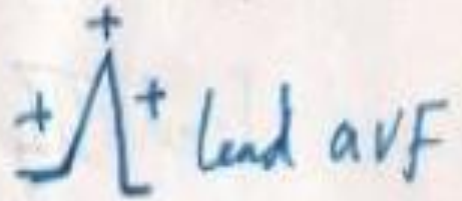
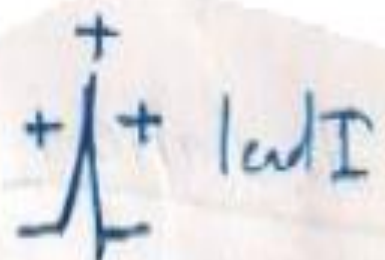
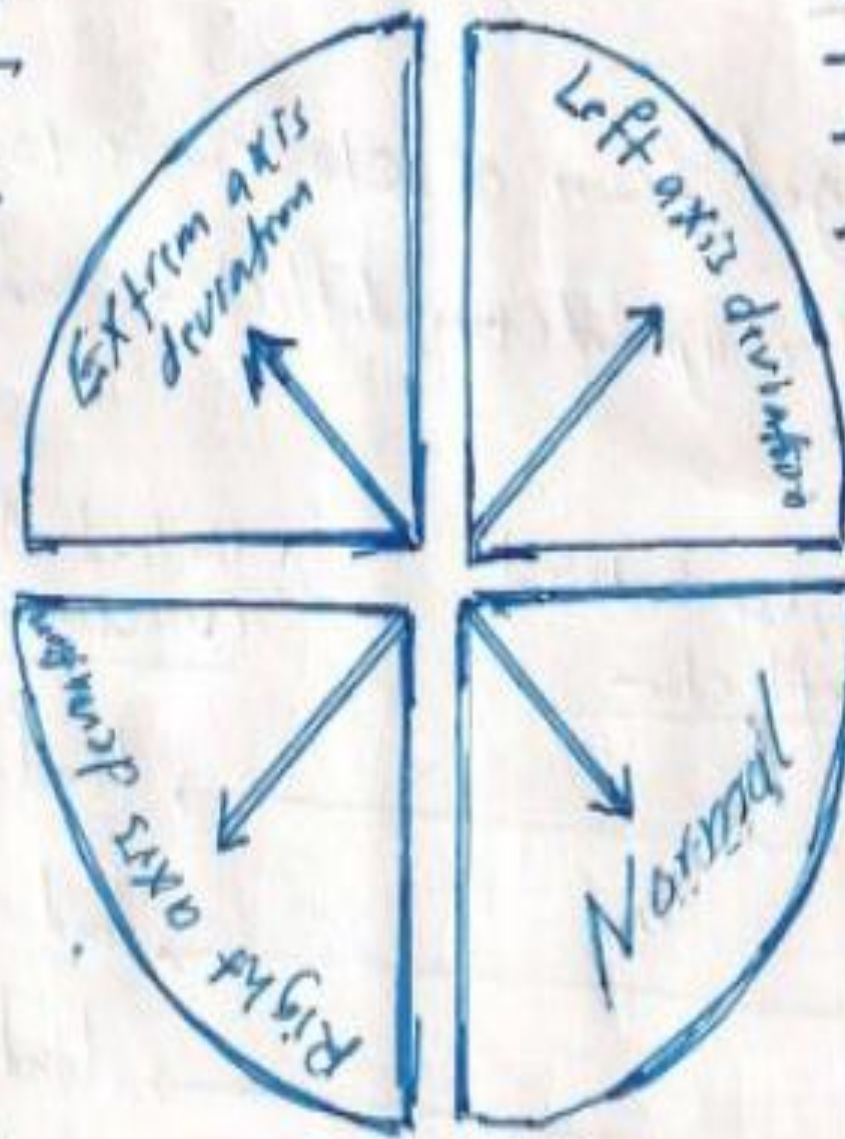
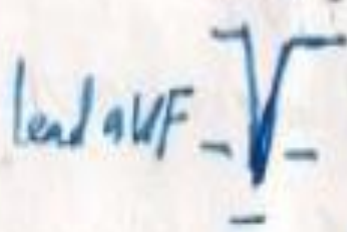
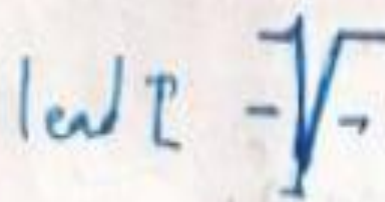
ECG AXIS

ATRIAL AND

VENTRICULAR HYPERTROPHY







I

VR

V₁V₄

II

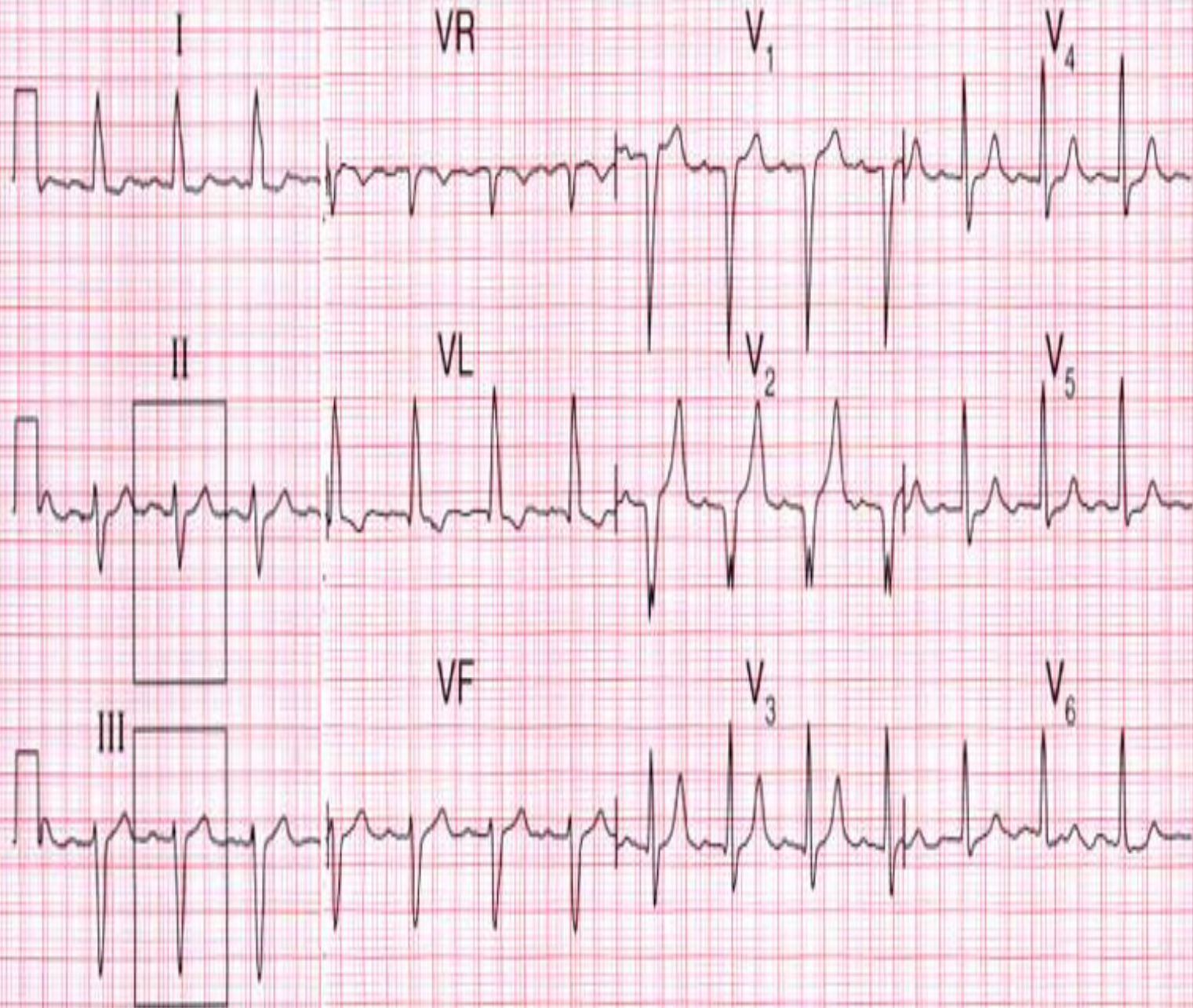
VL

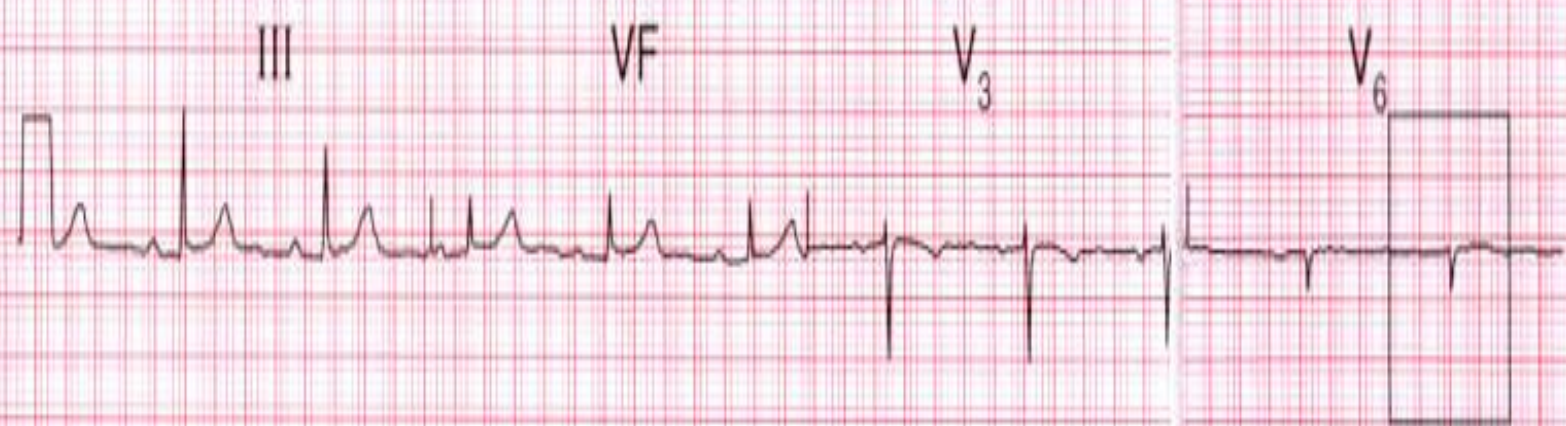
V₂V₅

III

VF

V₃V₆





I

VR

V₁V₄

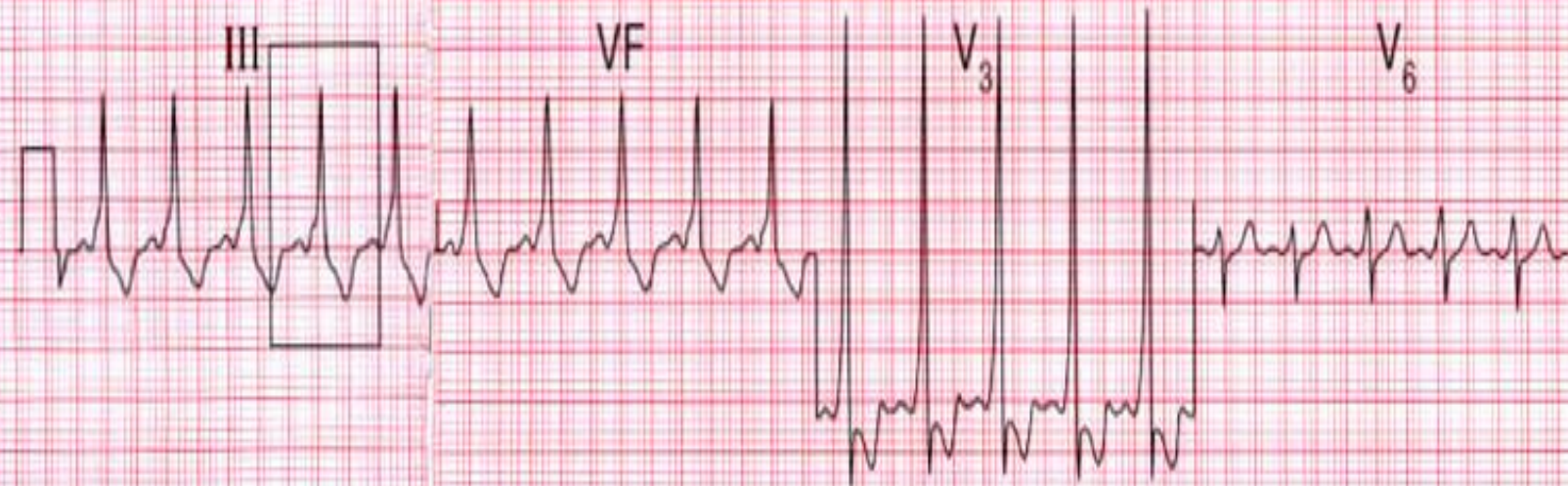
II

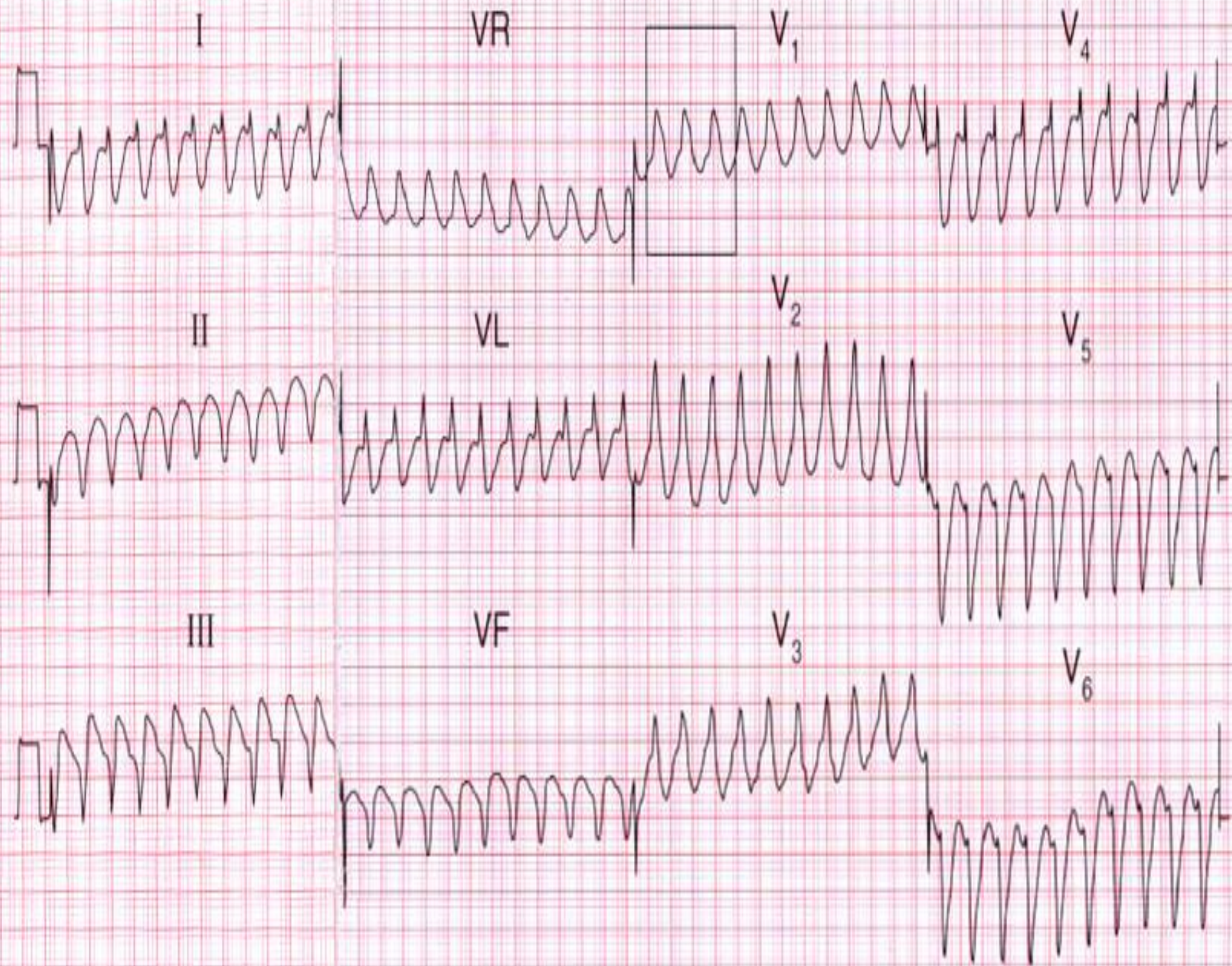
VL

V₂V₅

III

VF

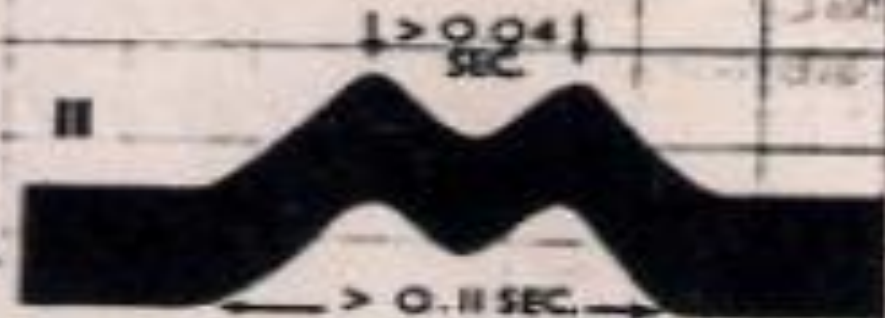
V₃V₆



A.



B.



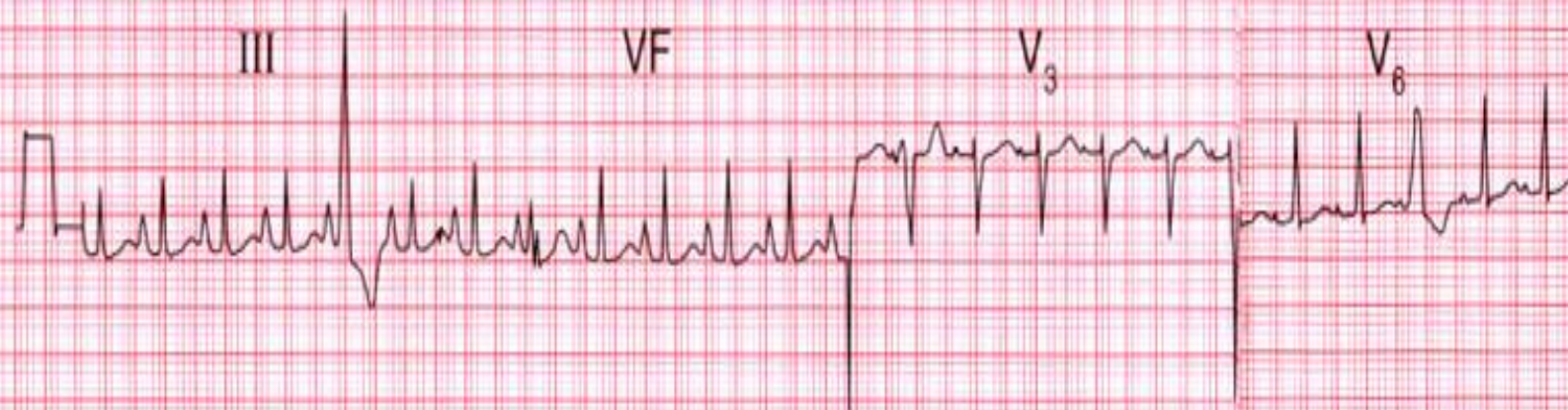
C.











Left ventricular hypertrophy (LVH):

1- Tall R waves in leads V5 and V6, Standard lead I and aVL, Deep S waves in lead V1 and V2.

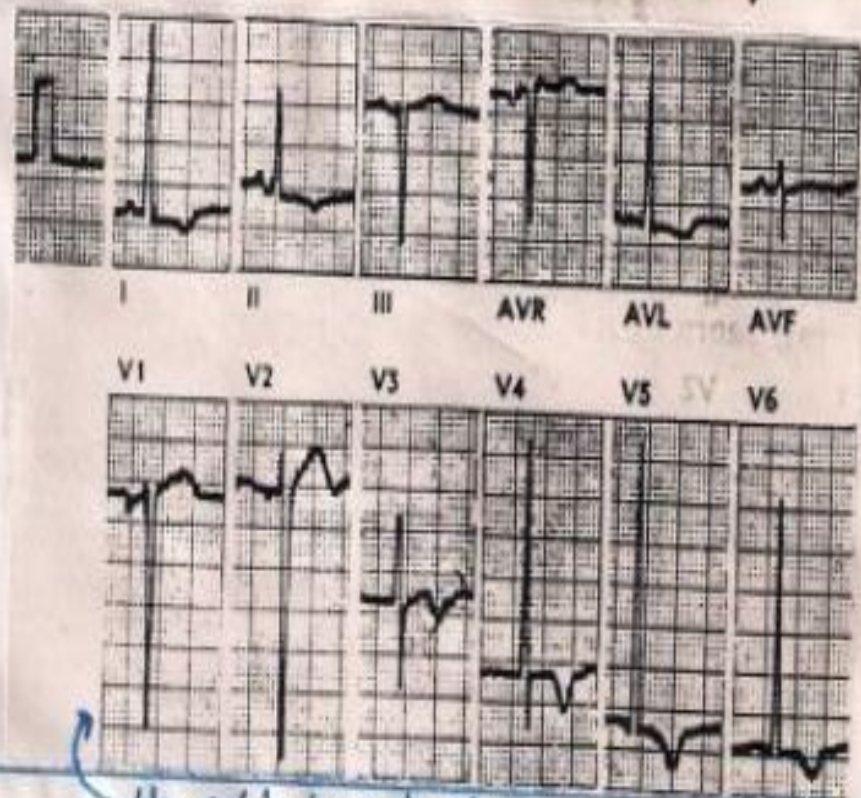
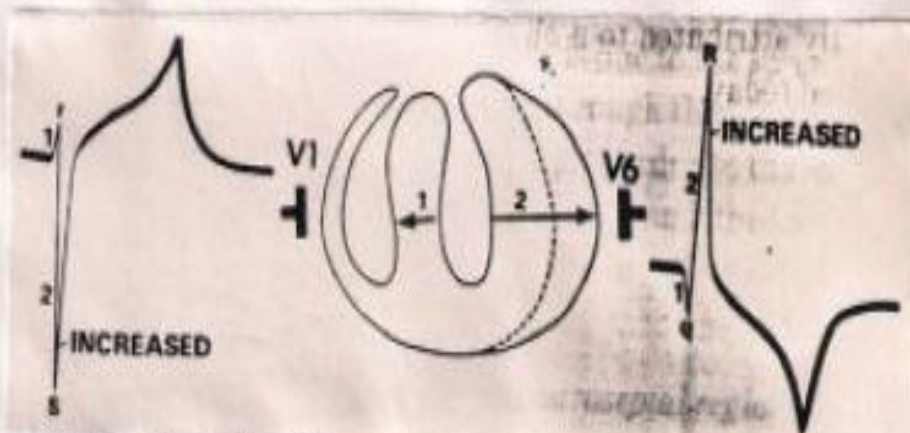
- S wave in M_1 or V2 + R wave in V5 or V6 ≥ 35 mm.

- Or R wave in aVL ≥ 12 mm.

- Or R wave in lead I ≥ 15 mm.

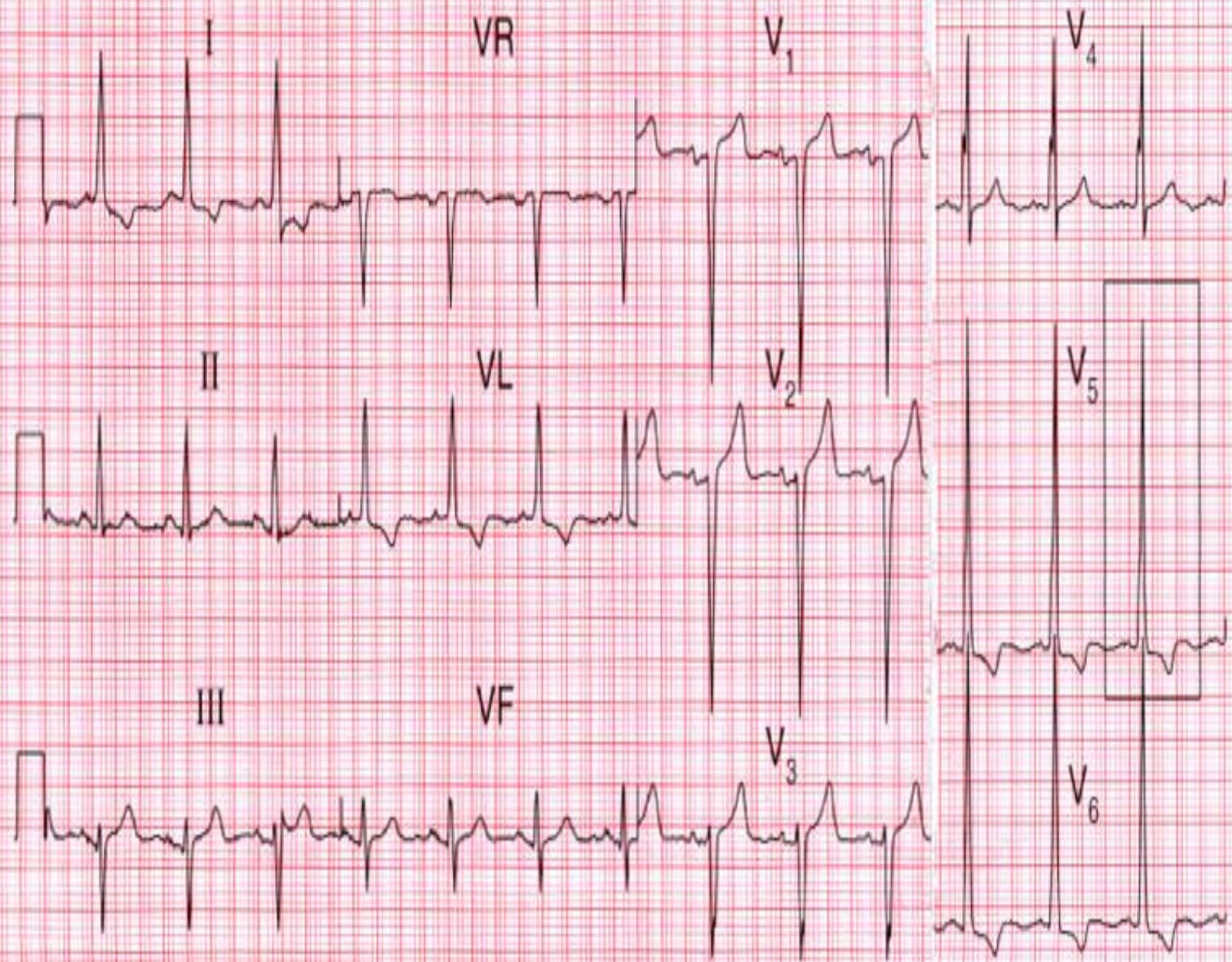
2- Strain pattern: depressed ST Segments with T wave inversion in lead V5, V6 lead I and aVL.

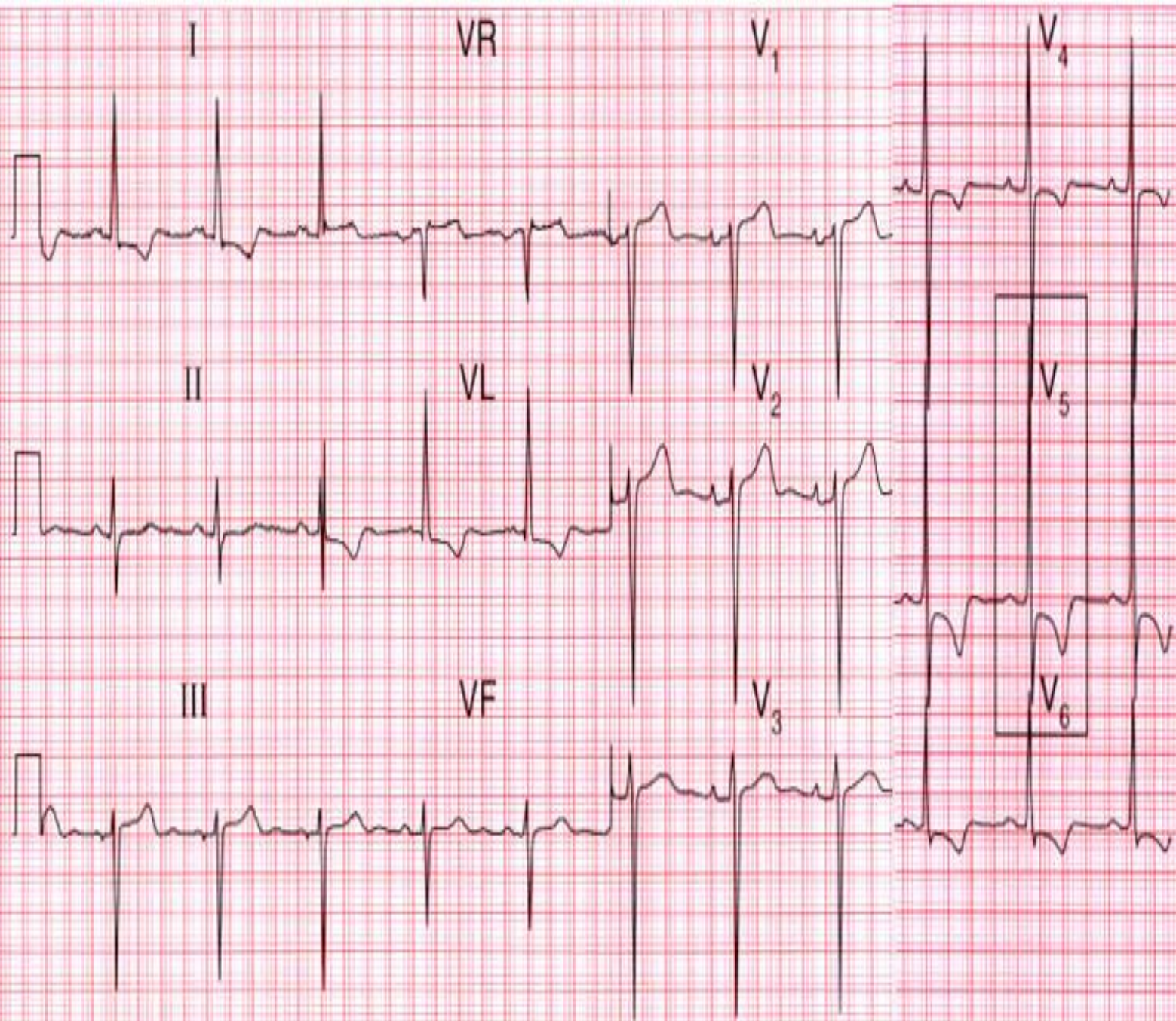
3- Left axis deviation



the axis here is 0° .

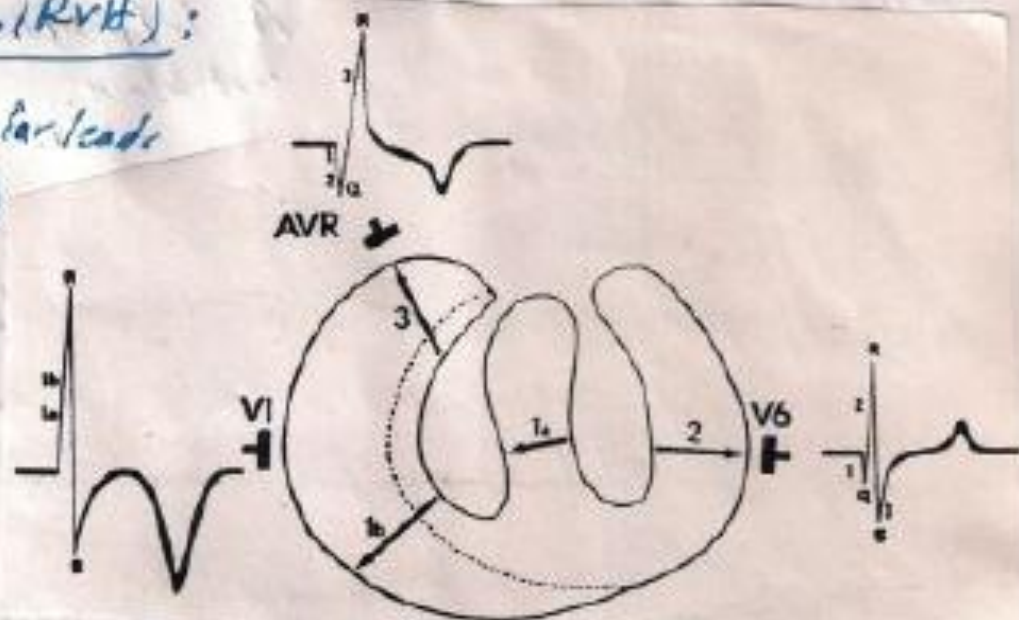




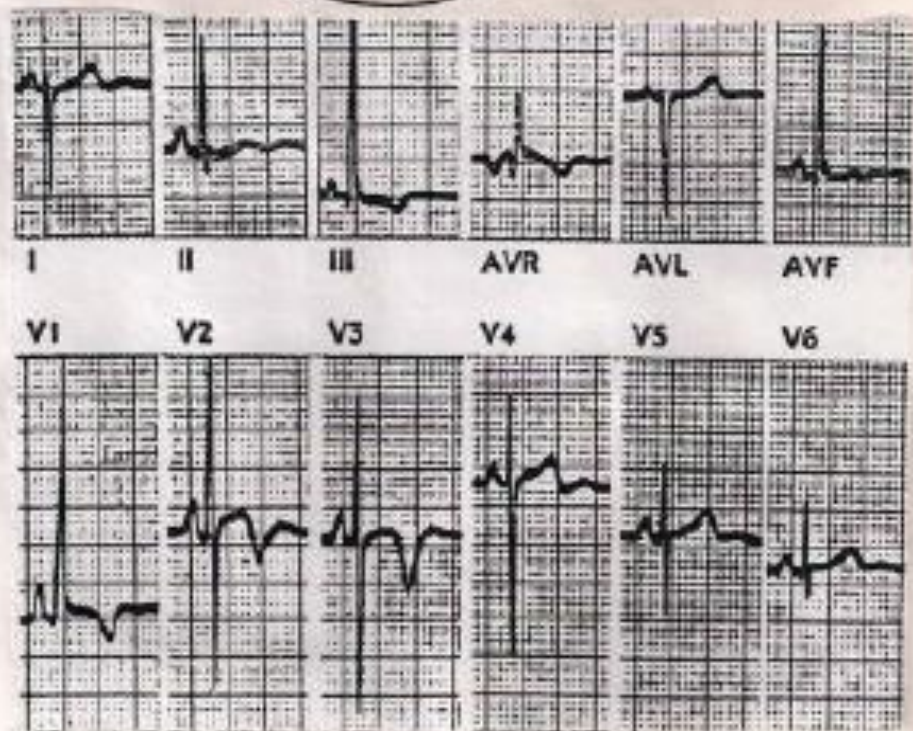


Right Ventricular hypertrophy (RVH):

- 1- Tall R waves over right ventricular leads
(R:S ratio in lead V_1 is > 1.0)
- 2- Right axis deviation
- 3- Depressed ST segments
with T wave inversion in V_1-V_3
(right ventricular strain)
- 4- Tall R wave in lead aVR.



RVH
the angle is
 $+130^\circ$





THANKS