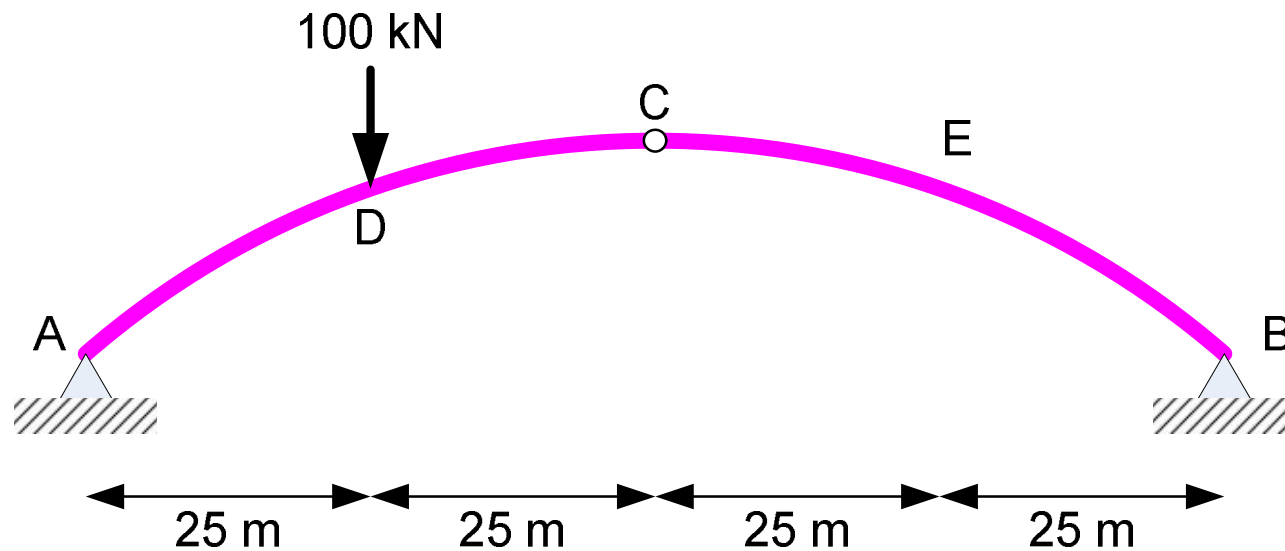


QUIZ : CHAPTER 5

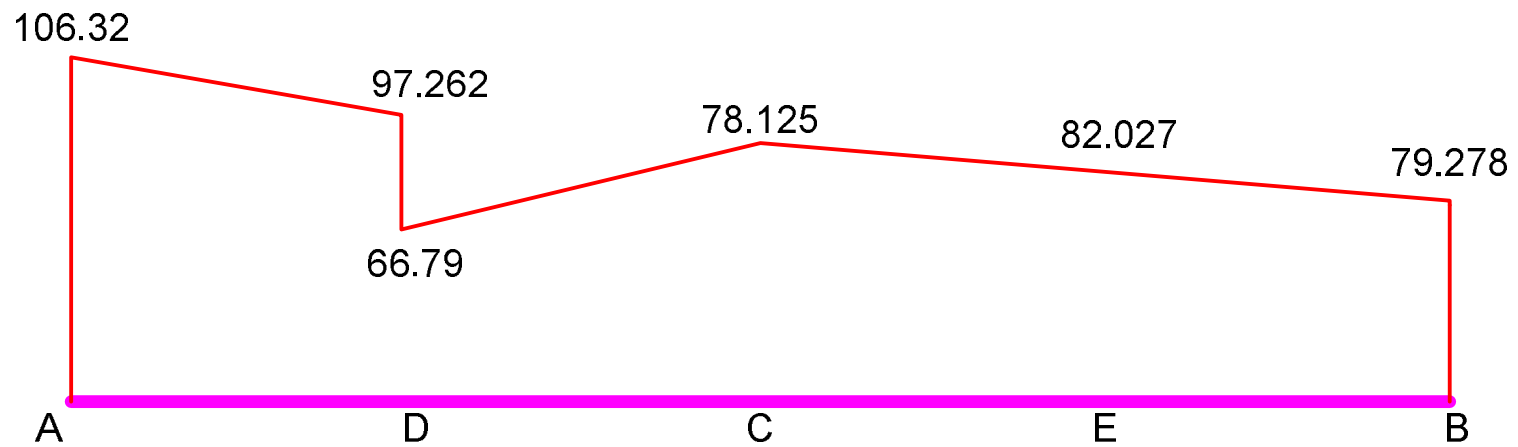
- Draw shear force, bending moment and axial force diagram for the parabolic arch shown in figure below.



Summary

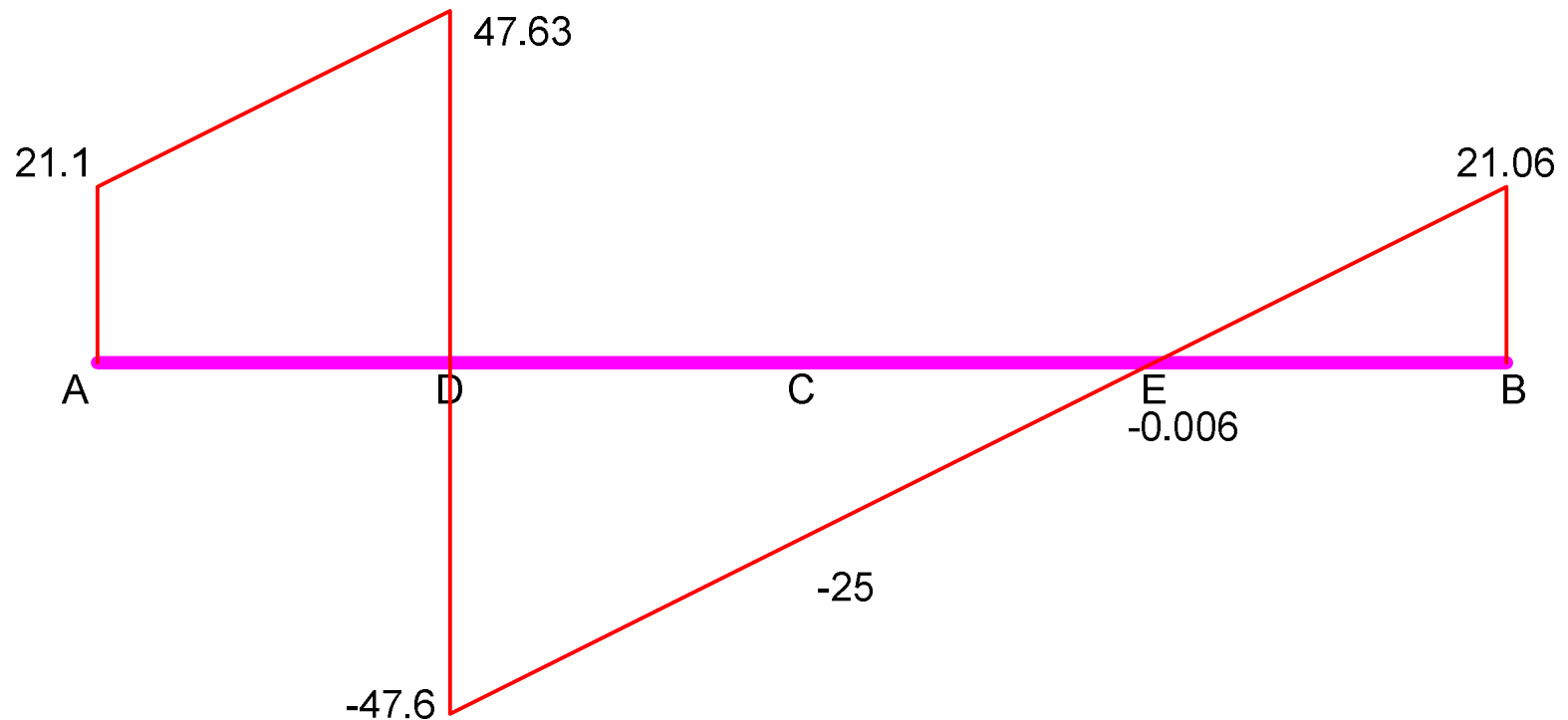
Point	Axial Force, N (kN)	Shear Force, Q (kN)	Bending Moment (kNm)
A	106.32	21.1	0
D	97.262 (without load)	47.63 (without load)	937.5
	66.79 (With load)	-47.6 (With load)	
C	78.125	-25	0
E	82.207	-0.006	-312.5
B	79.278	21.06	0

AXIAL FORCE DIAGRAM



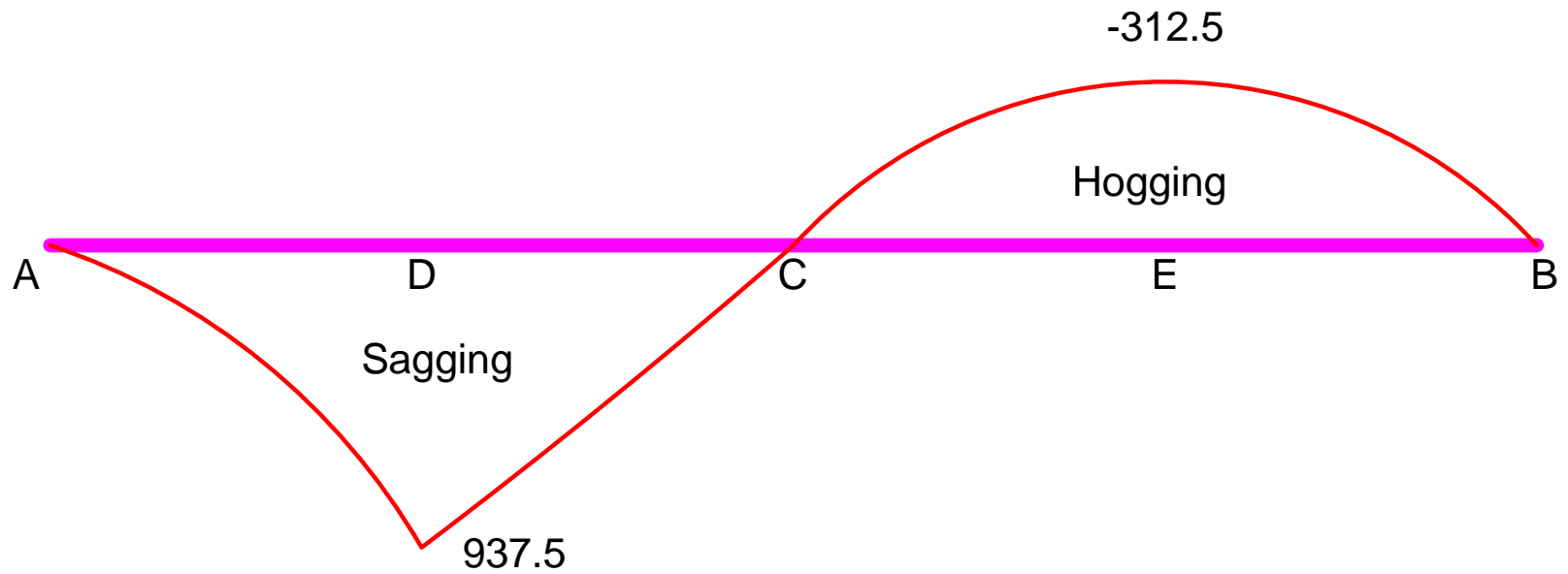
AFD

SHEAR FORCE DESIGN



SFD

BENDING MOMENT DIAGRAM



BMD