

Design Variables	
Modulus of Elasticity (psi, N/mm ²) E =	35000000.00
Moment of Inertia (in ⁴ , mm ⁴) I =	61.900
Distance to Neutral Axis (in, mm) n =	4.070
Line Load (lb/in, N/mm) w =	50.000
Length (in, mm) a =	25.000
Length (in, mm) b =	50.000
Length (in, mm) c =	25.000
Length (in, mm) x =	20.000
Length (in, mm) x ₁ =	10.000
Length (in, mm) x ₂ =	10.000
Results	
Length (in, mm) L =	100.000
Reaction R _A (lbs, N) =	2500.000
Reaction R _B (lbs, N) =	2500.000
Shear Load V ₁ (lbs, N) =	-1250.000
Shear Load V ₂ (lbs, N) =	1250.000
Shear Load V ₃ (lbs, N) =	1250.000
Shear Load V ₄ (lbs, N) =	-1250.000
Shear Load @ x < b V _x (lbs, N) =	250.000
Shear Load @ x ₁ < a V _{x1} (lbs, N) =	-500.000
Shear Load @ x ₂ < c V _{x2} (lbs, N) =	750.000
Moment M ₁ (lbs-in, N-mm) =	0.000
Moment M _x (lbs-in, N-mm) =	-625.000
Moment M _A (lbs-in, N-mm) =	-15625.000
Moment M _B (lbs-in, N-mm) =	-15625.000
Moment M _{x1} (lbs-in, N-mm) =	-2500.000
Moment M _{x2} (lbs-in, N-mm) =	-5625.000
Deflection y _x (in, mm) =	3.7503e-4
Deflection y _{b/2} (in, mm) =	3.7563e-4
Deflection y _{x1} (in, mm) =	-4.7900e-4
Deflection y _{max1} (in, mm) =	2.5543e-4
Deflection y _{x2} (in, mm) =	-1.4761e-3
Deflection y _{max2} (in, mm) =	-2.6294e-3
Slope θ _A (radian) =	6.010e-5
Slope θ _x (radian) =	2.404e-5
Slope θ _B (radian) =	-6.010e-5
Slope θ _C (radian) =	6.010e-5
Slope θ _D (radian) =	-1.202e-4
Slope θ _{x1} (radian) =	1.765e-4