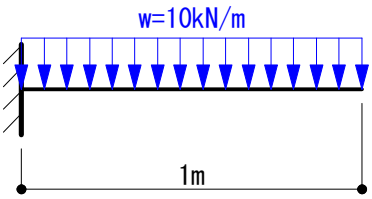
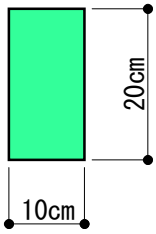
■問題　図の部材に生じる最大曲げ応力度を求めよ。



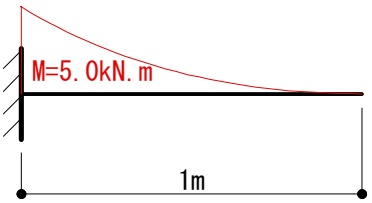


部材断面

・応力算定と部材算定の複合問題。

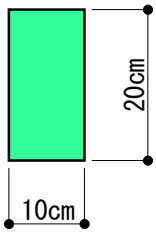
■解説

▼まず、片持ち梁の最大曲げモーメントを求めます。



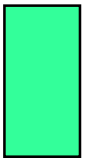
▼部材断面の断面係数(Z)を求めます。

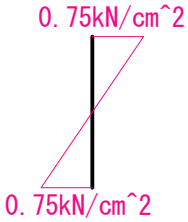
断面係数(Z)= b*h^2/6
= 10*20^2/6
= 666.66cm^3

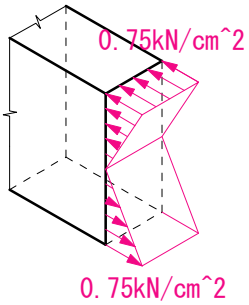


▼σ= M/fb*Z より

fb = 500/666.66 = 0.75kN/cm^2







答え　最大曲げ応力度 = 0.75kN/cm^2