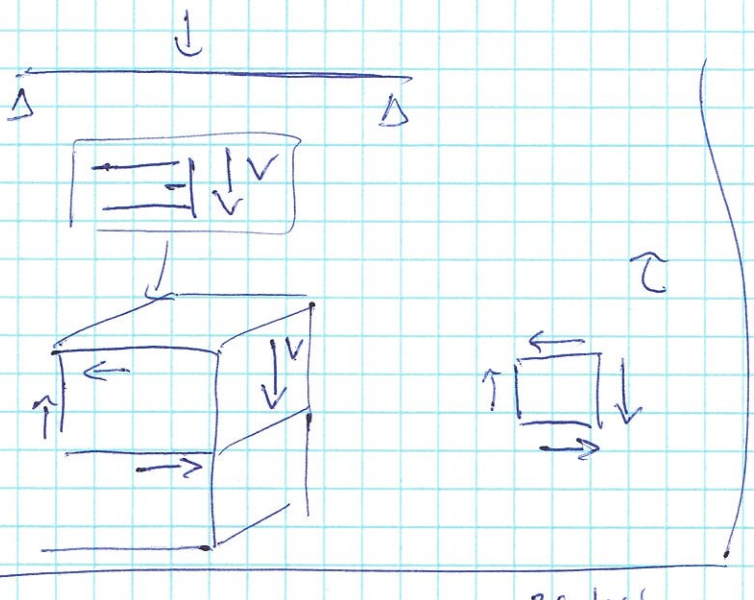
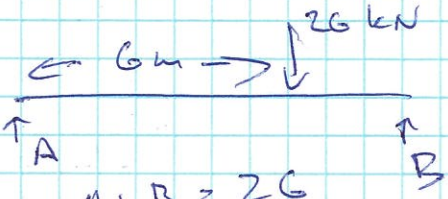


7.1

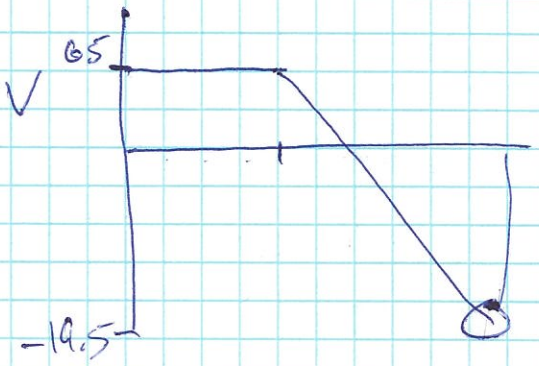


$A + B = 26$

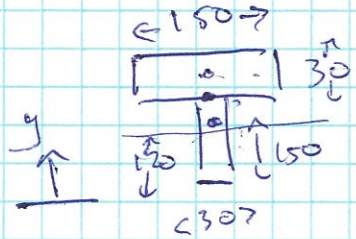
$\Sigma M_A = 0 = -6(26) + 8B$

$B = 19.5$

$A = 6.5$



$V = -19.5$ kN



$\frac{75 + 165}{2} = 120$ mm

$I = \frac{1}{12} 30(150)^3 + 150(30)45^2 + \frac{1}{12}(150)(30)^3 + 150(30)45^2$

$= 155.6 \times 10^{-6}\ m^4$

$Q = 30(150)45$

$t = 30$

$\tau = \frac{VQ}{It} = \frac{19.5\ (kN)\ (30)(150)(45)\ mm^3}{155.6 \times 10^{-6}\ m^4\ (30)\ mm}$

$= 4.88$ MPa