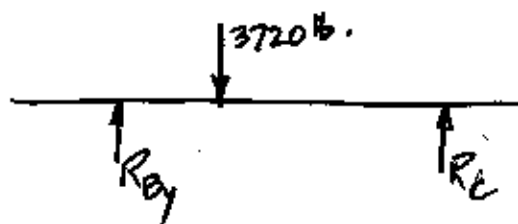


SECT	AREA = WEIGHT = FORCE	MOM. ARM from A	FIRST MOM. OF AREA
I	$\frac{1}{2}bh = \frac{1}{2}(3')(480 \frac{lb}{ft}) = 720 \text{ lb}$	$\frac{1}{3}b = \frac{1}{3}(3') = 1'$	720 ft. lb.
II	$\frac{1}{2}bh = \frac{1}{2}(6')(600 \frac{lb}{ft}) = 1800 \text{ lb}$	$3' + \frac{2}{3}(6') = 7'$	12,600 ft. lb.
III	$bh = (2')(600 \frac{lb}{ft}) = 1200 \text{ lb}$	$3' + 6' + \frac{1}{2}(2') = 10'$	12,000 ft. lb.
	$\Sigma A = 3720 \text{ lb.}$		$\Sigma A\bar{x} = 25,320 \text{ ft. lb.}$

$$x_c = \frac{25320}{3720} = 6.806 \text{ ft from pt. A}$$

or 3.806 ft from pt. B SUPPORT



$$\Sigma M_B = 3720(3.806') - R_C(6') = 0$$

$$R_A = 2360 \text{ lb } \uparrow$$

$$\Sigma F_y = 0 = R_B + R_C - 3720$$

$$R_C = 1360 \text{ lb } \uparrow$$