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~~Equilibrium of Rigid Bodies~~

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~~Mechanics 3 - Chapter 5~~

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free-body diagram of the
beam, which is pin-connected
at A and rocker-supported at
B. Given: $F = 500 \text{ N}$ $M = 800$
 N m ? $a = 8\text{m}$ $b = 4\text{m}$ $c = 5\text{m}$

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Solution: Problem 5-11 The sphere of weight W rests between the smooth inclined planes.

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chapter 5 1. PROBLEM 5.1

Locate the centroid of the
plane area shown. SOLUTION A,

in 2 x , in. y , in. x_A , in
3 y_A , in 3 1 8 $\times 6 = 48$? 4 9

? 192 432 2 16 $\times 12 = 192$ 8 6
1536 1152 ? 240 1344 1584 ?

x_A 1344 in 3 Then $X =$ or X
 $= 5.60$ in. ? A 240 in 2 ? y_A

1584 in 3 and $Y =$ or $Y =$
6.60 in. ? A 240 in 2

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10-5 Determine the moment
for inertia of the shaded
area about the y axis.

Given: $a = 4\text{in}$ $b = 2\text{in}$

Solution: $I_y = \int_0^a x^2 dx + \int_0^b x^2 dx$
 $= \frac{1}{3} a^3 + \frac{1}{3} b^3 = \frac{1}{3} (4^3 + 2^3)$
 $= 21.33\text{in}^4 =$ Problem 10-6

Determine the moment of
inertia for the shaded area
about the x axis. Solution:
 $I_x = \int_0^b x^2 dx + \int_0^h x^2 dx$...

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