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PROBLEM 5.1 Locate the centroid of the plane area shown. SOLUTION A, in  $2 \times 6$ , in.  $y$ , in.  $x_A$ , in.  $3 \times 6$ , in.  $y_A$ , in.  $3 \times 6$ , in.  $y_A$ , in.

$18 \times 6 = 108$   $4 \times 9 = 36$   $192$   $432$   $2 \times 16 = 32$   $16 \times 12 = 192$   $8 \times 6 = 48$

$1536$   $1152$   $240$   $1344$   $1584$   $x_A$   $1344$  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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 $I_y = \int_0^a x^2 dx + \int_0^b x^2 dx = \frac{1}{3} a^3 + \frac{1}{3} b^3 = \frac{1}{3} (4^3 + 2^3) = \frac{1}{3} (64 + 8) = \frac{72}{3} = 24\text{in}^3$   
21.33in<sup>4</sup> = Problem 10-6 Determine the moment of inertia for the shaded area about the x axis. Solution:  $I_x = \int_0^b x^2 dx + \int_0^a x^2 dx = \frac{1}{3} b^3 + \frac{1}{3} a^3 = \frac{1}{3} (2^3 + 4^3) = \frac{1}{3} (8 + 64) = \frac{72}{3} = 24\text{in}^3$  ...

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