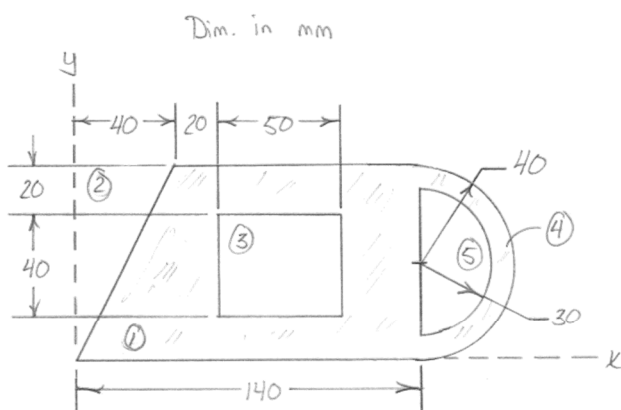


5/58



	A, mm^2	\bar{x}, mm	\bar{y}, mm	$A\bar{x}, \text{mm}^3$	$A\bar{y}, \text{mm}^3$
①	$140(80) = 11200$	70	40	784×10^3	448×10^3
②	$-\frac{1}{2}(40)(80) = -1600$	$\frac{40}{3} = 13.33$	$\frac{2}{3}(80) = 53.3$	-21.3×10^3	-85.3×10^3
③	$-40(50) = -2000$	85	40	-170×10^3	-80×10^3
④	$\frac{\pi(40)^2}{2} = 800\pi$	$140 + \frac{4(40)}{3\pi} = 157.0$	40	395×10^3	32000π
⑤	$-\frac{\pi(30)^2}{2} = -450\pi$	$140 + \frac{4(30)}{3\pi} = 157.7$	40	-216×10^3	-18000π
Σ	8700			771×10^3	327×10^3

$$\bar{X} = \frac{\Sigma A\bar{x}}{\Sigma A} = \frac{771 \times 10^3}{8700} \rightarrow \bar{X} = 88.7 \text{ mm} \quad \bar{Y} = \frac{\Sigma A\bar{y}}{\Sigma A} = \frac{327 \times 10^3}{8700} \rightarrow \bar{Y} = 37.5 \text{ mm}$$