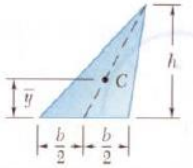
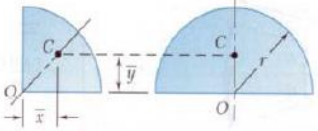
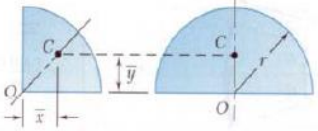
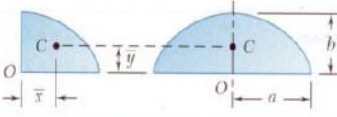
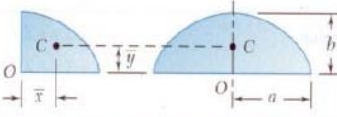
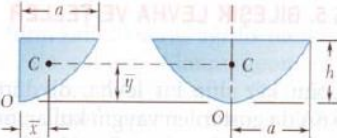
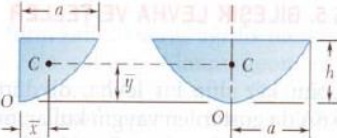
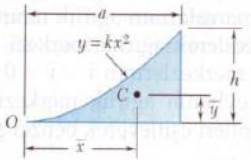
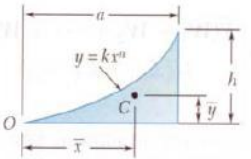
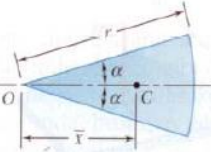


BÖLÜM 6-a

KÜTLE

ve

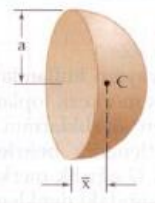
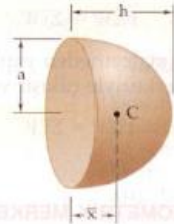
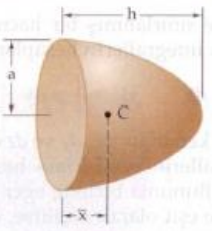
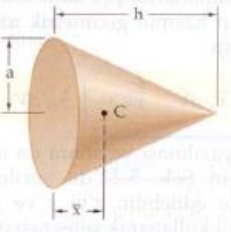
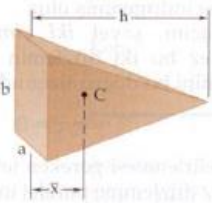
AĞIRLIK MERKEZİ

Şekil		$\bar{x}$	$\bar{y}$	Alan
Üçgen			$\frac{h}{3}$	$\frac{bh}{2}$
Çeyrek daire		$\frac{4r}{3\pi}$	$\frac{4r}{3\pi}$	$\frac{\pi r^2}{4}$
Yarım daire		0	$\frac{4r}{3\pi}$	$\frac{\pi r^2}{2}$
Çeyrek elips		$\frac{4a}{3\pi}$	$\frac{4b}{3\pi}$	$\frac{\pi ab}{4}$
Yarım elips		0	$\frac{4b}{3\pi}$	$\frac{\pi ab}{2}$
Yarı parabol		$\frac{3a}{8}$	$\frac{3h}{5}$	$\frac{2ah}{3}$
Parabol		0	$\frac{3h}{5}$	$\frac{4ah}{3}$
Parabol parçası		$\frac{3a}{4}$	$\frac{3h}{10}$	$\frac{ah}{3}$
Parabol parçası (genel)		$\frac{n+1}{n+2} a$	$\frac{n+1}{4n+2} h$	$\frac{ah}{n+1}$
Daire dilimi		$\frac{2r \sin \alpha}{3\alpha}$	0	$\alpha r^2$

Ref: Gündoğdu, vd. (2008)

Şekil		$\bar{x}$	$\bar{y}$	Uzunluk
Çeyrek daire yayı		$\frac{2r}{\pi}$	$\frac{2r}{\pi}$	$\frac{\pi r}{2}$
Yarım daire yayı		0	$\frac{2r}{\pi}$	$\pi r$
Daire yayı		$\frac{r \sin \alpha}{\alpha}$	0	$2\alpha r$

Ref: Gündoğdu, vd. (2008)

Şekil		$\bar{x}$	Hacim
Yarım Küre		$\frac{3a}{8}$	$\frac{2}{3}\pi a^3$
Dönel yarım elipsoid		$\frac{3h}{8}$	$\frac{2}{3}\pi a^2 h$
Dönel paraboloid		$\frac{h}{3}$	$\frac{1}{2}\pi a^2 h$
Koni		$\frac{h}{4}$	$\frac{1}{3}\pi a^2 h$
Piramit		$\frac{h}{4}$	$\frac{1}{3}abh$

Ref: Gündoğdu, vd. (2008)