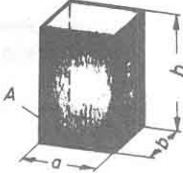
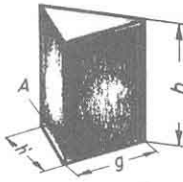
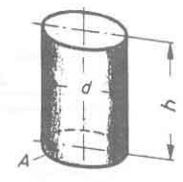
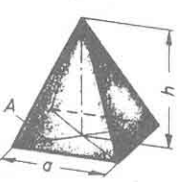
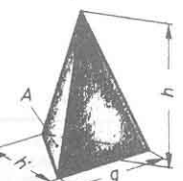
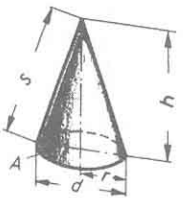
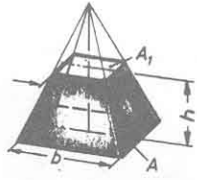
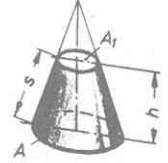
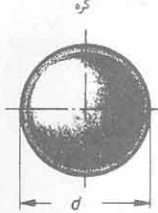
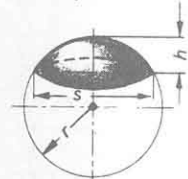
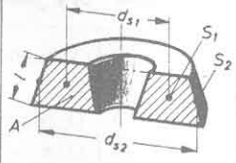


احجام

<p>مشور</p> 	<p>حجم = سطح قاعده × ارتفاع</p> $V = A \cdot h$ $V = A_{\square} \cdot h$ $V = A_{\square} \cdot h$ $V = a \cdot b \cdot h$	<p>سطح کل جانبی</p> $A_0 = 2A_{\square} + 4A_{\square}$ <p>A = مربع</p> $A_0 = 2A_{\square} + 2A_{\square 1} + 2A_{\square 2}$ <p>A = مستطیل</p>
<p>مشور</p> 	$V = A \cdot h$ $V = A_{\Delta} \cdot h$ $V = \frac{g \cdot h'}{2} \cdot h$	$A_0 = 2A_{\Delta} + 3A_{\square}$ <p>A = مثلث متساوی الاضلاع</p> $A_0 = 2A_{\Delta} + A_{\square 1} + A_{\square 2} + A_{\square 3}$ <p>A = مثلث نامنظم</p> $A_0 = 2A_{\Delta} + n \cdot A_{\square}$ <p>A = چندگوش منظم</p>
<p>استوانه</p> 	$V = A \cdot h$ $V = A_0 \cdot h$ $V = \frac{\pi}{4} \cdot d^2 \cdot h$	<p>سطح جانبی</p> $A_M = \pi \cdot d \cdot h$
<p>مهر</p> 	<p>حجم = $\frac{\text{سطح قاعده} \times \text{ارتفاع}}{3}$</p> $V = \frac{A \cdot h}{3}$ $V = \frac{A_{\square} \cdot h}{3}$ $V = \frac{a \cdot h \cdot h}{3}$	<p>سطح کل جانبی</p> $A_0 = A_{\square} + 4A_{\Delta 1}$ <p>A = مربع</p> $A_0 = A_{\square} + 2A_{\Delta 1} + 2A_{\Delta 2}$ <p>A = مستطیل</p>
<p>مهر</p> 	$V = \frac{A \cdot h}{3}$ $V = \frac{A_{\Delta} \cdot h}{3}$ $V = \frac{g \cdot h' \cdot h}{3}$	$A_0 = A_{\Delta} + 3A_{\Delta 1}$ <p>A = مثلث متساوی الاضلاع</p> $A_0 = A_{\Delta} + A_{\Delta 1} + A_{\Delta 2} + A_{\Delta 3}$ <p>A = مثلث نامنظم</p> $A_0 = A_{\Delta} + n \cdot A_{\Delta 1}$ <p>A = چندگوش منظم</p>
<p>خروط</p> 	$V = \frac{A \cdot h}{3}$ $V = \frac{A_0 \cdot h}{3}$ $V = \frac{\pi}{4} \cdot d^2 \cdot \frac{h}{3}$	$A_0 = \frac{\pi}{4} \cdot d(d + 2s)$ <p>سطح جانبی</p> $A_M = \frac{\pi \cdot d \cdot s}{2}$ $A_M = \pi \cdot r \sqrt{r^2 + h^2}$

<p>سطح کل جانبی</p> <p>جمع کل سطوح</p>	$V = \frac{h}{3} \cdot (a^2 + a \cdot b + b^2) \quad A = \text{مربع}$ $V \approx A_m \cdot h \quad V \approx \left(\frac{a+b}{2}\right)^2 \cdot h \quad A = \text{مربع}$ $V = \frac{h}{3} (A + \sqrt{A \cdot A_1} + A_1) \quad A = \text{گوش}$	<p>هرم ناقص</p> 
$A_M = \pi \cdot \frac{d+D}{2} \cdot s$ $s = \sqrt{h^2 + (R-r)^2}$ <p>سطح کل جانبی</p> $A_0 = A + A_1 + A_M$	$V = \frac{\pi}{12} \cdot h \cdot (D^2 + D \cdot d + d^2) \quad \frac{\pi}{12} = 0,261$	<p>غزوط ناقص</p> 
<p>سطح کل جانبی</p> $A_0 = \pi \cdot d^2$	$V = \frac{2}{3} \cdot \frac{\pi}{4} \cdot d^2 \cdot d$ $V = \frac{\pi}{6} \cdot d^3$ $V = 0,5236 \cdot d^3$	<p>کره</p> 
<p>سطح جانبی</p> $A_M = 2 \cdot \pi \cdot r \cdot h$ $A_M = \frac{\pi}{4} (s^2 + 4h^2)$	$V = \pi \cdot h^2 \cdot \left(r - \frac{h}{3}\right)$ $V = \pi \cdot h \cdot \left(\frac{s^2}{8} + \frac{h^2}{6}\right)$	<p>قطعه کره</p> 
<p>سطح جانبی</p> $A_M = l \cdot \pi \cdot d_1$ <p>سطح کل جانبی</p> $A_0 = U_A \cdot \pi \cdot d_1$ <p>محيط مقطع</p>	<p>قاعده کولبدین</p> <p>سطح مولد طول مرکز نقل</p> <p>ضلع مولد طول مرکز نقل</p> <p>S = مرکز نقل</p> $V = A \cdot \pi \cdot d_1$	<p>احجام دورانی</p> 
<p>سطح کل جانبی</p> <p>سطح جانبی</p> $A_0 = A_M = U \cdot \pi \cdot d_2$ $A_0 = \pi \cdot d \cdot \pi \cdot d_1$	$V = \frac{\pi}{4} \cdot d^2 \cdot \pi \cdot d_1$	<p>حلقه استوانه</p> 