

## 2. Bez

## Prismen/Zylinder

## Lösungen AB 4

1.  $r = 0,7\text{m}$        $V = 2,8\text{m}^3$        $M = 7,92\text{m}^2$        $O = 11\text{m}^2$

2.  $V = 2380\text{cm}^3$      $M = 744\text{cm}^2$

3.  $h = 12,7\text{cm}$      $M = 400\text{cm}^2$

4.  $h = 85\text{cm}$

5.  $V = 108,81\text{cm}^3$

6.  $V = \frac{x^3 \cdot \pi}{4}$

7.  $O = 6x^2\pi$

8.  $m = \frac{V}{\rho} = 4,32\text{kg}$

9.  $V_1 = 6 \cdot 6 \cdot 6 = 216\text{cm}^3 \hat{=} 100\%$

$V_2 = 9 \cdot 9 \cdot 9 = 729\text{cm}^3 \hat{=} 337,5\%$       --> 237,5% grösser

10.  $V = 2s \cdot 4,5s \cdot 11,5s = \underline{\underline{103,5s^3}}$

$G = 2s \cdot 4,5s = 9s^2$

$M = u \cdot h = (2s + 2s + 4,5s + 4,5s) \cdot 11,5s = 13s \cdot 11,5s = 149,5s^2$

$O = M + 2 \cdot G = 149,5s^2 + 18s^2 = \underline{\underline{167,5s^2}}$