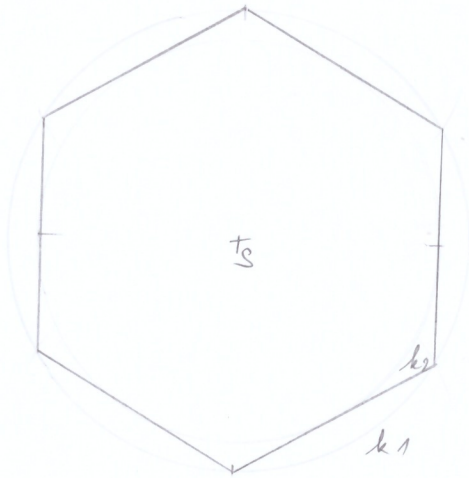
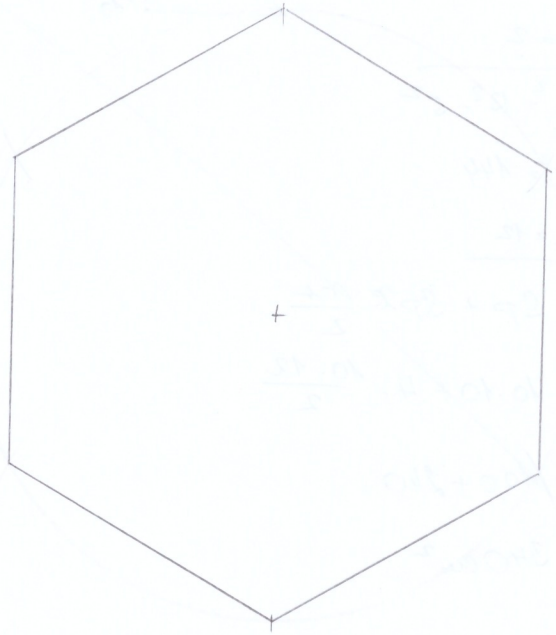


M9

152/3 a)



152/4 b)



153/9  $a = p \cdot \sin \alpha$

$$r = 2a \sin \alpha$$

$$V = ?$$

$$S = ?$$

$$V = S_p \cdot r =$$

$$V = \frac{a \cdot r \cdot a}{2} \cdot 6 \cdot r =$$

$$V = \frac{p \cdot 6,9}{2} \cdot 6 \cdot 2 =$$

$$V = \underline{\underline{331,2 \text{ cm}^3}}$$



$$r^2 = p^2 - 4^2$$

$$r^2 = 64 - 16$$

$$r^2 = 48$$

$$r = 6,9 \text{ cm}$$

$$S = 2S_p + S_{p1}$$

$$S = 2 \cdot 165,6 + 8 \cdot 6 \cdot 2$$

$$S = 427,2 \text{ cm}^2$$

153/11  $V = 32 \text{ cm}^3$

$$S_{p1} = 2S_p$$

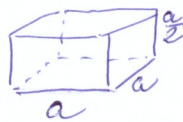
$$V = a \cdot a \cdot \frac{a}{2}$$

$$32 = a^3$$

$$64 = a^3$$

$$\underline{\underline{a = 4}}$$

$$\underline{\underline{r = 2}}$$

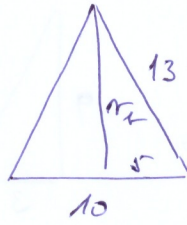
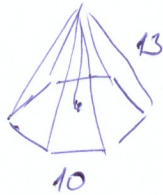


158/5

$$a = 10 \text{ cm}$$

$$l = 13 \text{ cm}$$

$$S = ?$$



$$r_t^2 = 13^2 - 5^2$$

$$r_t^2 = 169 - 25$$

$$r_t^2 = \sqrt{144}$$

$$\underline{\underline{r_t = 12 \text{ cm}}}$$



$$r^2 = 10^2 - 5^2$$

$$r^2 = 100 - 25$$

$$r = \sqrt{75}$$

$$r = 8,7$$

$$S = S_p + 6 \cdot \frac{a \cdot r_t}{2}$$

$$S = 6 \cdot \frac{a \cdot r_t}{2} + 6 \cdot \frac{a \cdot r_t}{2}$$

$$S = 3 \cdot 10 \cdot 8,7 + 3 \cdot 10 \cdot 12$$

$$\underline{\underline{S = 621 \text{ cm}^2}}$$

158/6

$$a = 5 \text{ cm}$$

$$r = 8 \text{ cm}$$

$$V = ?$$

$$V = \frac{1}{3} S_p \cdot r$$

$$V = \frac{1}{3} \cdot 5 \cdot \frac{4\sqrt{3}}{2} \cdot 8$$

$$V = 28\sqrt{3} = \underline{\underline{29 \text{ cm}^3}}$$



$$r_a^2 = 5^2 - 2,5^2$$

$$r_a^2 = 25 - 6,25$$

$$r_a = \sqrt{18,75}$$

$$r_a = 4,3 \text{ cm}$$

158/7  $V = 212 \text{ m}^3$ 

$$a = 7,2 \text{ m}$$

$$r = ?$$

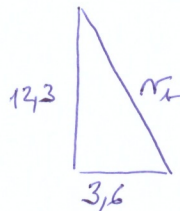
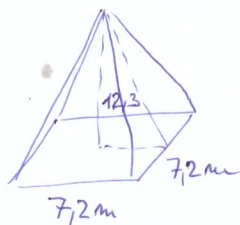
$$S = ?$$

$$V = \frac{1}{3} S_p \cdot r$$

$$212 = \frac{1}{3} \cdot 7,2 \cdot 7,2 \cdot r$$

$$r = \frac{212}{3 \cdot 7,2 \cdot 7,2}$$

$$\underline{\underline{r = 12,3 \text{ m}}}$$



$$S = S_p + S_p \cdot l$$

$$S = 7,2 \cdot 7,2 + 4 \cdot \frac{7,2 \cdot 12,3}{2}$$

$$\underline{\underline{S = 236,2 \text{ m}^2}}$$

$$r_t^2 = 12,3^2 + 3,6^2$$

$$r_t^2 = 151,29 + 12,96$$

$$r_t = \sqrt{164,25}$$

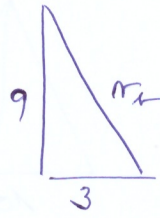
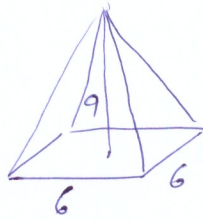
$$r_t = 12,8$$

158/8

$$r = 9 \text{ m}$$

$$a = 6 \text{ m}$$

$$S = ?$$



$$S = 4 \cdot \frac{a \cdot r_f}{2}$$

$$S = 2 \cdot 6 \cdot 9,5$$

$$S = 114 \text{ m}^2$$

$$r_f^2 = 9^2 + 3^2$$

$$r_f^2 = 81 + 9$$

$$r_f = \sqrt{90}$$

$$r_f = 9,5 \text{ m}$$

$$S + 5\% = 119,7 \text{ m}^2 \approx 120 \text{ m}^2$$