

Масса шара
Площадь и объем шара



$$s^2 = h^2 + r^2$$

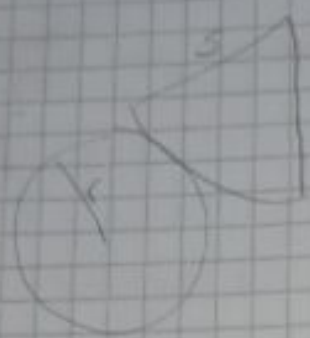


$$P = \frac{4\pi r^2}{3}$$

$$V = \frac{4\pi r^3}{3}$$

$$P = \frac{V}{r}$$

Задача 1: 724 B, r



$$P = B + M$$

$$B = r^2 \pi$$

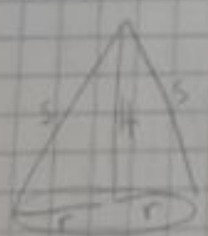
$$M = \frac{s \cdot 2r\pi}{2} = Sr\pi$$

$$P = r^2 \pi + Sr\pi$$

$$V = \frac{1}{3} BH$$

$$V = \frac{1}{3} r^2 \pi H$$

724 a) $V = ?$, $P = ?$



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

$$h = 12 \text{ cm}$$

$$r^2 = s^2 - h^2$$

$$r^2 = 13^2 - 12^2$$

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

$$P = B + M$$

$$B = r^2 \pi = 25\pi \text{ cm}^2$$

$$M = Sr\pi = 65\pi \text{ cm}^2$$

$$P = 90\pi \text{ cm}^2$$

$$V = \frac{1}{3} BH$$

$$V = \frac{1}{3} \cdot 25\pi \cdot 12$$

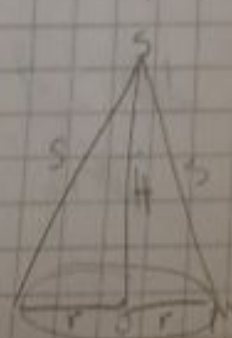
$$V = 100\pi \text{ cm}^3$$

724

a) $r = 3 \text{ cm}$

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

$P = ?$, $V = ?$



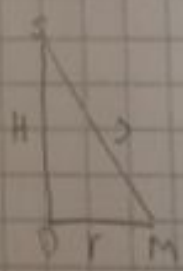
$$P = B + M$$

$$B = r^2 \pi = 9\pi \text{ cm}^2$$

$$M = Sr\pi = 15\pi \text{ cm}^2$$

$$P = 24\pi \text{ cm}^2$$

$$V = \frac{1}{3} BH$$



$$h^2 = s^2 - r^2$$

$$h^2 = 25 - 9$$

$$h^2 = 16 \text{ cm}^2$$

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

$$V = \frac{1}{3} \cdot 9\pi \cdot 4$$

$$V = 12\pi \text{ cm}^3$$