

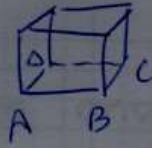
GEOMETRIA

N° 161 scheda

$$p_s = 7,2$$

$$S_L = 324 \text{ cm}^2$$

$$P = ?$$



risolvo

$$AB = \sqrt{S_L : 4} = \sqrt{324 : 4} = \sqrt{81} = 9 \text{ cm}$$

$$\text{Volume} = AB^3 = 9^3 = 729 \text{ cm}^3$$

$$P = V \cdot p_s = 729 \cdot 7,2 = 5268,8 \text{ grammi}$$

N° 184 scheda

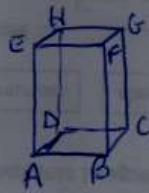
$$\overline{AB} = 5 \text{ cm}$$

$$\overline{BC} = 4 \text{ cm}$$

$$\overline{BF} = 10 \text{ cm}$$

$$p_s = 19,5$$

$$P \text{ in kg} = ?$$



risolvo

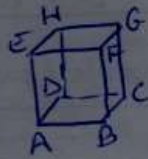
$$A_b = AB \cdot BC = 5 \cdot 4 = 20 \text{ cm}^2$$

$$V = A_b \cdot h = 20 \cdot 10 = 200 \text{ cm}^3$$

$$P = V \cdot p_s = 200 \cdot 19,5 = 3900 \text{ g}$$

$$3900 \text{ g} = 3,9 \text{ kg}$$

n° 194



$$P = 1075 \text{ kg}$$

$$P_s = 8,6$$

$$S_T = ?$$

Resolvo

$$V = P : P_s = 1075 : 8,6 = 125 \text{ dm}^3$$

$$AB = \sqrt[3]{125} = 5 \text{ dm}$$

$$S_T = AB^2 \cdot 6 = 5^2 \cdot 6 = 25 \cdot 6 = 150 \text{ dm}^2$$

ALGEBRA

268

$$(x+b)(2x-bx) = 2x^2 - bx^2 + 2bx - b^2x$$

$$(a+b)(a-b) = a^2 - ab + ab - b^2 = a^2 - b^2$$

269

$$(x+2y)(2x-y) = 2x^2 - xy + 4xy - 2y^2 = 2x^2 + 3xy - 2y^2$$

$$(5x+3)(x^2-x) = 5x^3 - 10x^2 + 3x^2 - 6x = 5x^3 - 7x^2 - 6x$$

270

$$(a-2b)(-a-3b) = -a^2 - 3ab + 2ab + 6b^2 = -a^2 - ab + 6b^2$$

$$(-2x+3y)(x-3) = -2x^2 + 6x + 3xy - 9y$$

275

$$(x^2+x+2)(x-1) = x^3 - x^2 + x^2 - x + 2x - 2 = x^3 + x - 2$$

276

$$(3a-4b+2c)(a-2b) = 3a^2 - 6ab - 4ab + 8b^2 + 2ac - 4bc = 3a^2 - 10ab + 8b^2 + 2ac - 4bc$$

283

$$(a+1)(1-a) + (a+3)(a-2) - (a-4) =$$

$$\cancel{a} - \cancel{a^2} + 1 - \cancel{a} + \cancel{a^2} - 2a + 3a - 6 - \cancel{a} + 4 = -1$$

284

$$(2a+1)(2a-1) - 4(1-a+a^2) - 5(a-1) =$$

$$\cancel{4a^2} - \cancel{2a} + \cancel{2a} - 1 - 4 + 4a - \cancel{4a^2} - \cancel{5a} + 5 = -a$$