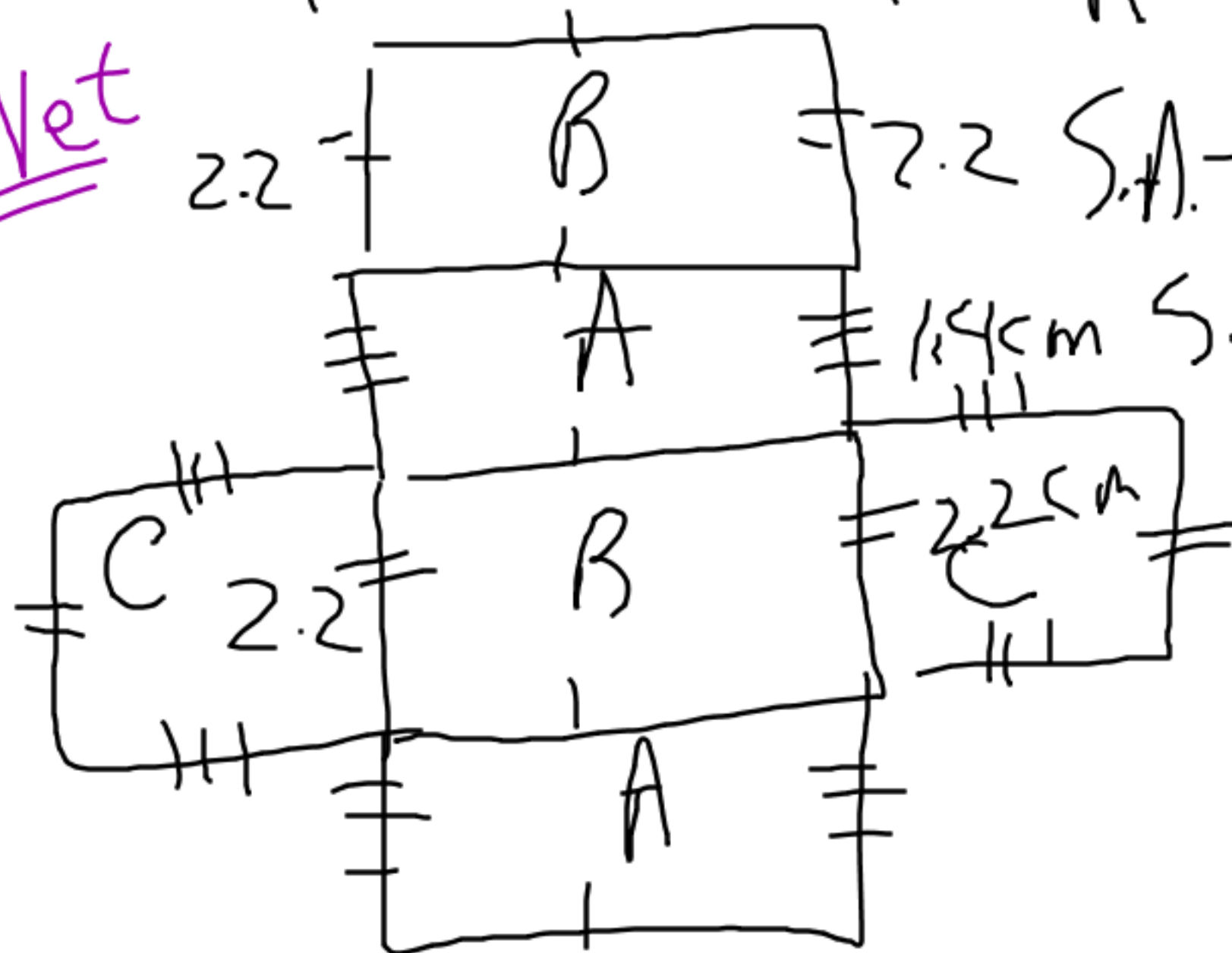


P-4169 Surface Area + Volume Mar. 25
of a Prism

1. rectangular prism
2. triangular prism
3. cube
4. triangular prism

8. Surface Area of a Rectangular Prism

Net

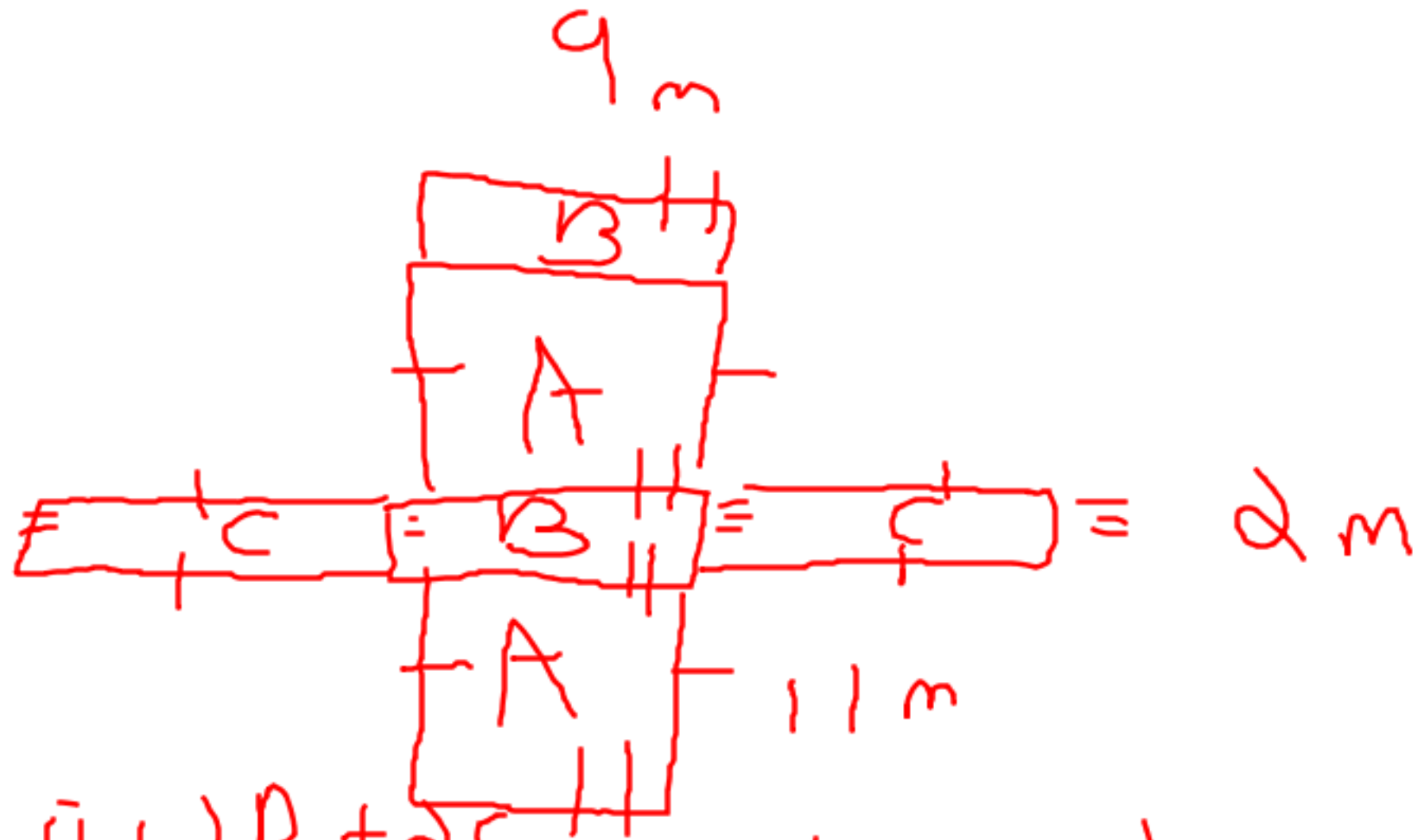


5.2 cm

$$S.A. = 2A + 2B + 2C$$

$$S.A. = 2(Lw) + 2(Lw) + 2(Lw)$$

15.



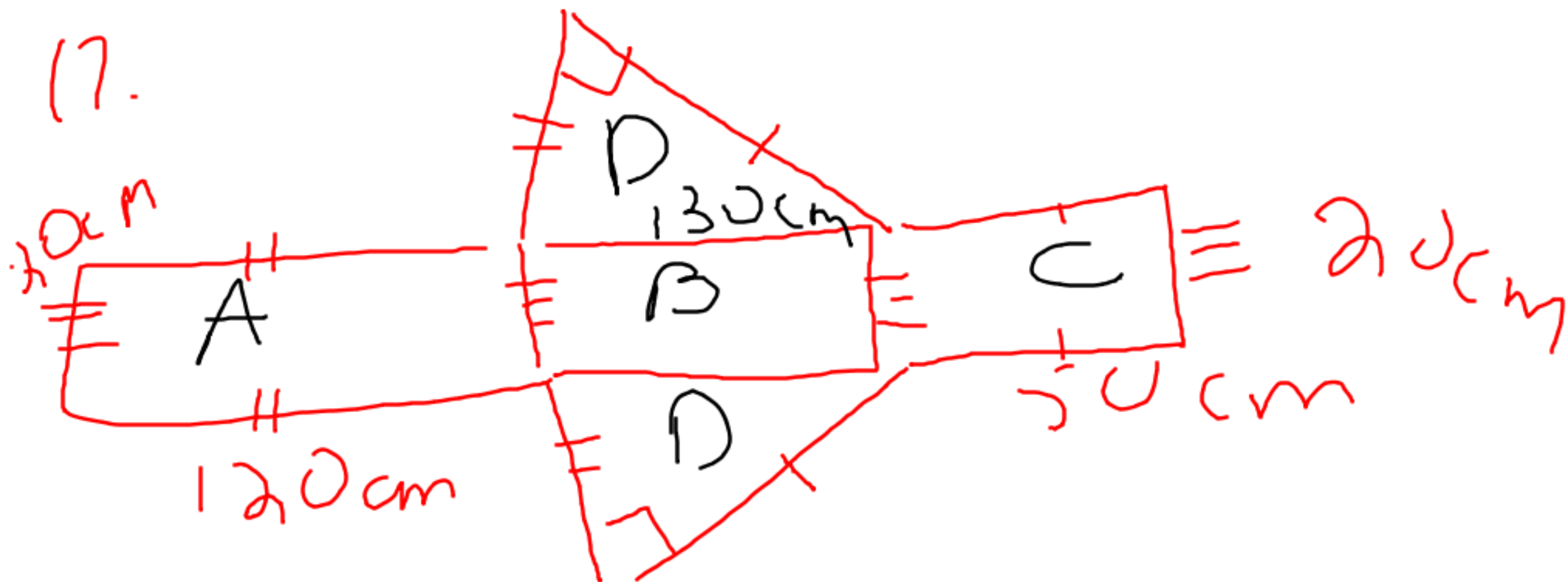
$$\begin{aligned}
 \sum A &= 2A + 2B + 2C \\
 \sum A &= 2(1 \times 11) + 2(1 \times 11) + 2(1 \times 11) \\
 \sum A &= 2(9 \times 11) + 2(9 \times 2) + 2(11 \times 2) \\
 \sum A &= 2(99) + 2(18) + 2(22) \\
 \sum A &= 198 + 36 + 44 \\
 \sum A &= 278
 \end{aligned}$$

$$V = L \times w \times h$$

$$V = 9 \times 2 \times 11$$

$$V = 198 \text{ m}^3$$

17.



$$a^2 + b^2 = c^2$$

$$(120)^2 + (50)^2 = c^2$$

$$14400 + 2500 = c^2$$

$$\sqrt{16900} = c$$

$$c = 130 \text{ cm}$$

$$V = \left(\frac{bh}{2} \right) h \rightarrow \text{prism height} + \text{triangle height}$$

$$V = \left(\frac{20 \times 50}{2} \right) 20$$

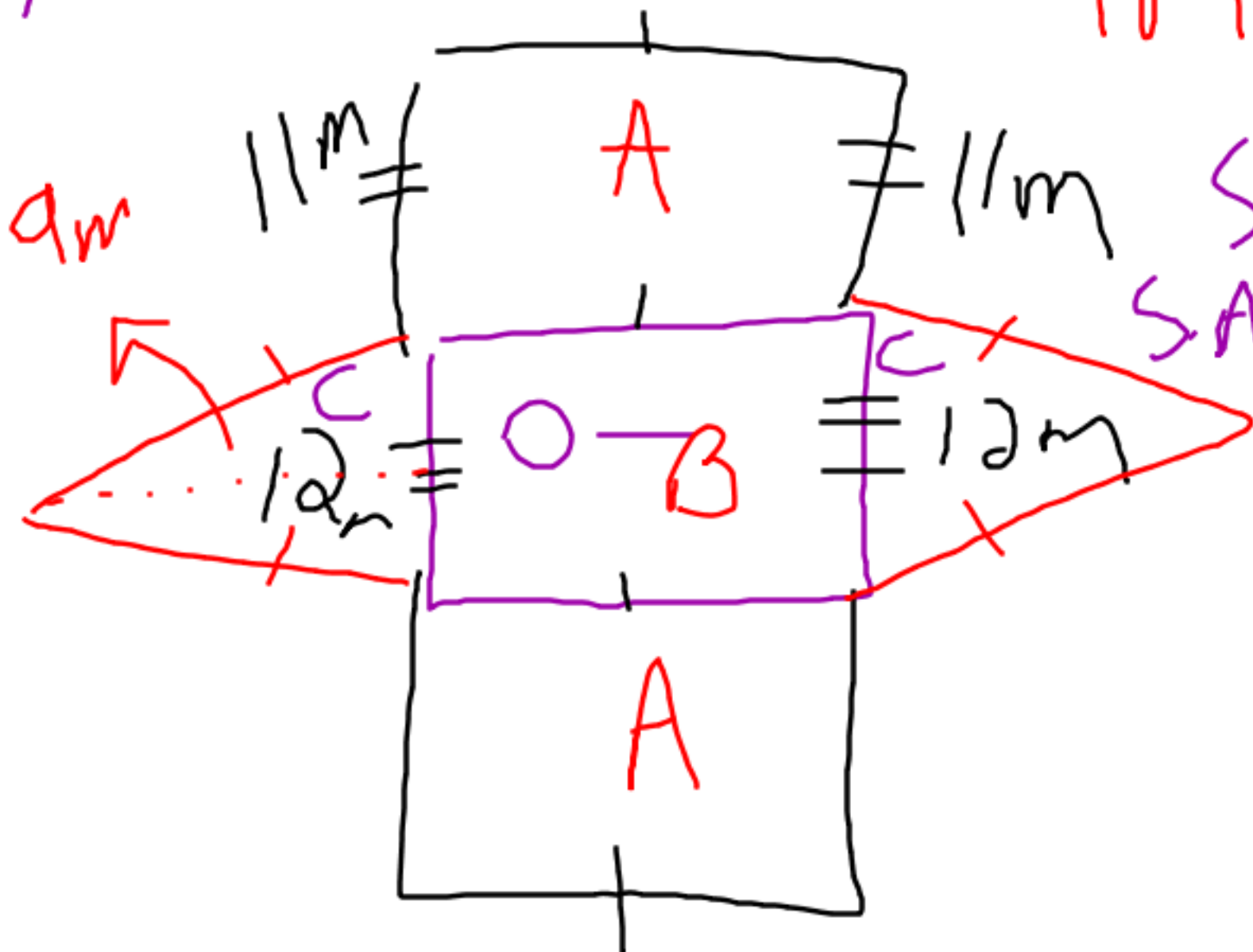
$$V = 3000(20)$$

$$V = 60000 \text{ m}$$

10.

$$\partial \bar{S}_m$$

triangular prism

$$S_A = 2A + B + 2C$$
$$S.A = 2A + B + 2C$$
$$S.A = 2(L \times w) + L \times w + 2\left(\frac{bh}{2}\right)$$


Not

11) Volume of a Rectangular Prism

$$V = l \times w \times h$$

$$V = (4)(3)(2)$$

$$V = 24 \text{ m}^3$$

Homework

Surface Area & Volume of a Prism

7 — 18