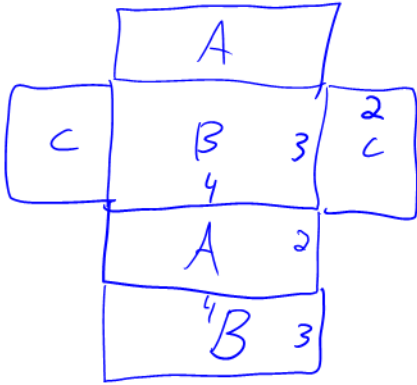
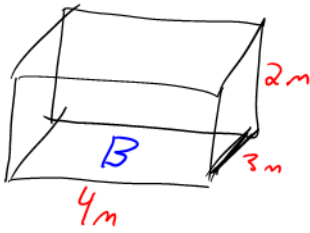


9.2 / Surface Area and Volume of Prisms pg 470.

11.



$$SA = 2A + 2B + 2C$$

$$SA = 2(4)(2) + 2(4)(3) + 2(2)(3)$$

$$= 16 + 24 + 12$$

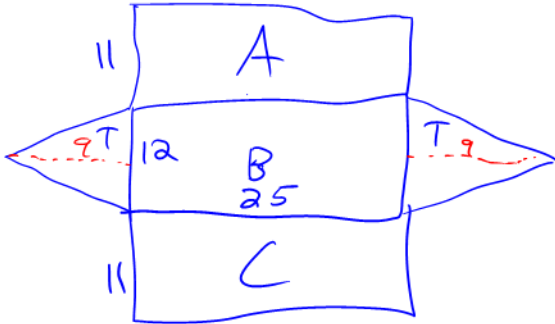
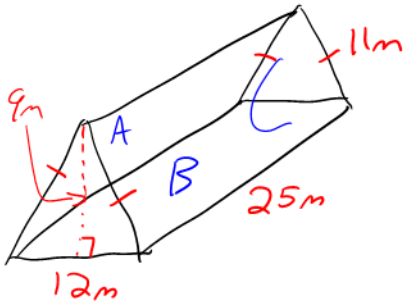
$$SA = 52m^2$$

$$V = lwh$$

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

$$V = 24m^3$$

10.



$$SA = A + B + C + 2T$$

$$SA = (11)(25) + (12)(25) + (11)(25) + 2\left(\frac{(12)(9)}{2}\right)$$

$$SA = 275 + 300 + 275 + 108$$

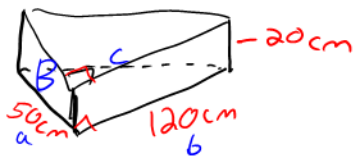
$$SA = 958m^2$$

$$V = \frac{bhl}{2}$$

$$V = \frac{(12)(9)(25)}{2}$$

$$V = 1350m^3$$

17.



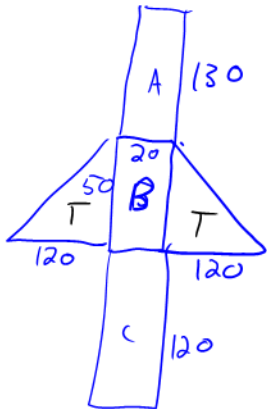
$$a^2 + b^2 = c^2$$

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

$$2500 + 14400 = c^2$$

$$\sqrt{16900} = \sqrt{c^2}$$

$$130 = c$$



$$SA = A + B + C + 2T$$

$$SA = (20)(130) + (20)(50) + (20)(120) + 2\left(\frac{(50)(120)}{2}\right)$$

$$SA = 2600 + 1000 + 2400 + 6000$$

$$SA = 12000 \text{ cm}^2$$

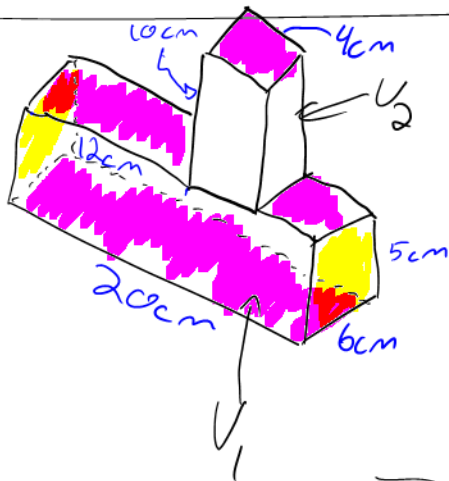
$$V = \frac{bhl}{2}$$

$$V = \frac{(50)(120)(20)}{2}$$

$$V = 60,000 \text{ cm}^3$$

You do
16, 20
pg 470

24.



$$SA = 2(5)(6) + 2(20)(6) + 2(20)(5) + 2(4)(10) + 2(6)(10)$$

$$SA = 60 + 240 + 200 + 80 + 120$$

$$SA = 700 \text{ cm}^2$$

$$V_1 = lwh$$

$$V_1 = (20)(6)(5)$$

$$V_1 = 600 \text{ cm}^3$$

$$V_2 = lwh$$

$$V_2 = (4)(6)(10)$$

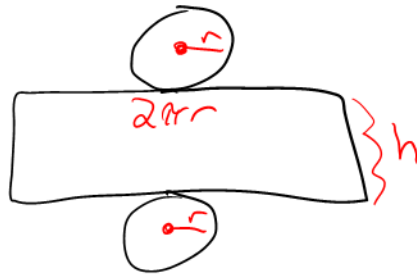
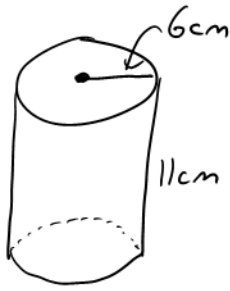
$$V_2 = 240 \text{ cm}^3$$

$$V = 840 \text{ cm}^3$$

9.3.

Cylinders and Cones

1.



$$S.A. = 2\pi r^2 + 2\pi r h$$

$$S.A. = 2(3.14)(6)^2 + 2(3.14)(6)(11)$$

$$SA = 226.08 + 414.08$$

$$SA = 640.56 \text{ cm}^2$$

$$V = \pi r^2 h$$

$$V = (3.14)(6)^2(11)$$

$$V = (3.14)(36)(11)$$

$$V = 1243.44 \text{ cm}^3$$

Homework

pg 470 #9 to 35

pg 479 #2