

heysts 0,2m h=30 mix

6. Raw, expos. 1

$$A_5 = (12m - 0.5m) - 6m^2$$
 $A_5 = \frac{1}{hA_5} = \frac{1}{8 \frac{w}{m^2} (6m^2)} = 0.0208 \frac{w}{n^2}$ 

9. Q from tp,

$$2_{tot1} = 0.00556 + 0.0208 + 0.00267 = 0.02903 \frac{1}{2}$$
 $\frac{3t}{2_{totn}} = \frac{28 - 15}{0.02903 \frac{1}{2}} = \frac{447.8}{0.02903 \frac{1}{2}}$ 

$$-Q = m \cdot c_{p}(T_{e}-T_{i})$$

$$= 0.23 \frac{c_{s}}{s}(1000 \frac{s}{s} \cdot k)(27\%-29\%)$$

$$= -460 \omega$$

Q=460 W

L. To= 10°C

11. Re\_ = 5.1×106 > 5×105 torblant

755me trisich from lando toblat

No\_ = (0.037 Re\_ 1/3 - 871) . Pr 1/3

= (0.037 (5.1×106) 1/3 - 871) . (0.73) 1/3

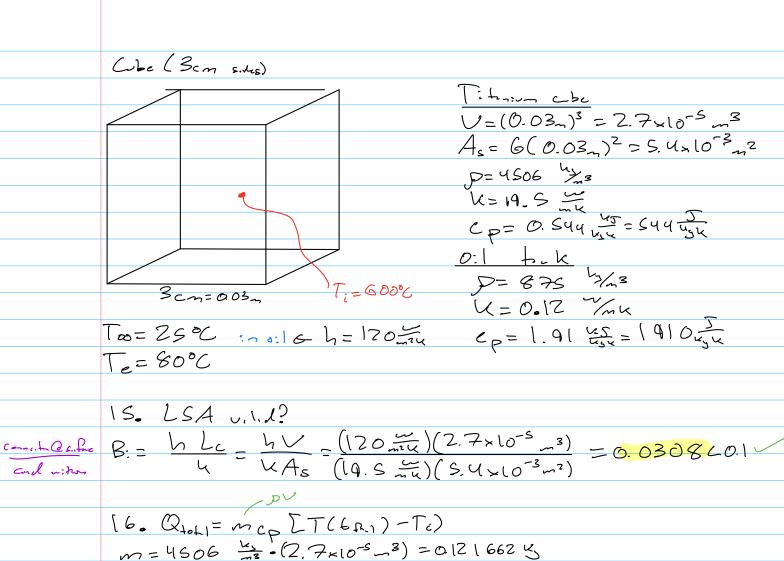
[1-1 = 6954.99

PCZ = S.1 > 106 Air: K= 0.026 = K PCZ 0.73 12.  $N_{02} = \frac{Lh}{uNul} = \frac{(4m)h}{0.026 \frac{m}{u}}$  $h = \frac{(0.026 \frac{m}{u})(6954.99)}{4m} = 45.21 \frac{u}{m^{2}k}$ 

13. Qcm= hDTAs =(45.71 \(\frac{1}{27}\)(\$0°C-107)(4...1.25.) =12658.8 W

Qcon = 17.66 Kw

14. Q ==: He l = E & Ax (Ts - Too) = 0.8 (\$67x lo - 8 == 2 kg) (4 == 1.75 == ) (50+273.15) = 3462.48 W



[6. Q<sub>10L1</sub>= m<sub>Cp</sub> [T(6<sub>R1</sub>)-T<sub>c</sub>) m=4506 - (2.7×10<sup>-5</sup>-3) =0121662 y Q<sub>10L1</sub>=0.121662 y(0.544 y)(80°C-600°C) = -35.05 y

Q+1=35.05 45