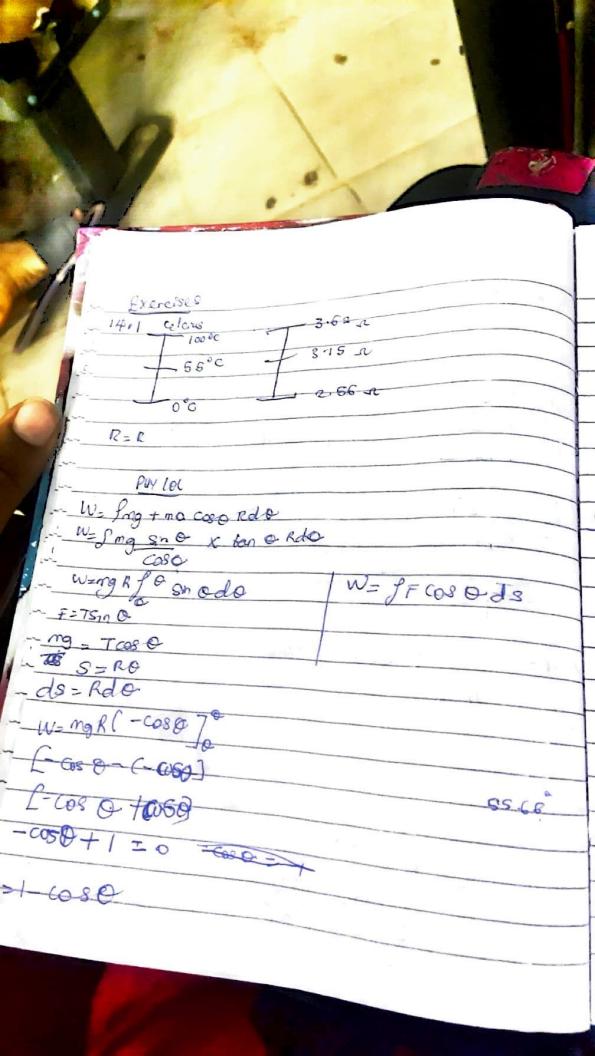


Example 14.10 Gras 2000mmly - 180 mm tlg x (110) = 100 (85) 110x = 350x oca 31.0°c. Example 14.11 R = Ro [1 + x (T-To)] where Ro = resistance at temperature To. Ro = + 10 % find the charge in temperature.

(d= 3.8 × 10-3 10-1) solution R= RO (1+ x (T-T0)] R=R0+10% R R=1.1Ro 1.1.1Ro=Ro [1+3.8×10-3 (T-To)] 1-1R0 = 1+38 × 10-3(T-To)

volume of a V = volu d = diameter. 2.66 \$ 3.60R2, 3.15R3 Tizoc, Ti=100°c, Tazssec .18,2 14.3=



15 × 60 60 Fower Fower may be defined as the rate of doing work or the rate of which work could be done  $\frac{p=w}{t}$ , p=dw, p=d(fxd)P=Fd8 - P=FX(d8) velocity P = FXV Q-A marathan runner with mass 50. Okg runs up the stars to the top of a 443m tall building. In order to lift himself to the top in 15.0 mins, what must be his overage power in watts and in horse power. (g=9.8 mls2). Salution m=50-0kg (1 horse power = 750 wasts). h = 448m 9=9.8 mlo2 2 A 241 W t= 900 secs au. P= w= mgh \$000=2410 P=50 x 9,8 x 443 oc = 0.321 hp 900 = 217070 = 241 W.