4w 21 # 4,6,11,13,15 Alexander Ya) P=VI, I= P toaster = 1800 = 15 A frying pan = 120 = 11.6 A lamp = 25 = 6-625A Yes, because the sum of current (due to it being a parallel circuit) is 215A. 6a) V=IR, I=K, P=I'R Rtotal = 24+96=1202 I = 120 = 0.4A (for both & series) P= 0.42. 24 = 3.84W 12 1120 = 1788 P=0.42.96=15.4W b) 242 corrent = 24 = 2A 962 cyrent = 46 =05A 2412 power = 482 = 96 W 96 12 pover = 482 = 24W 11) RIJJRZ Series: RTOTO = RI+R22R Povollel: KTotal = /(k+k) = /(R2+R1) = R1R2 = R2+R1 = R2 = R2 Bal Rador = Rithz, Rz= RTota - Ri= 0.5e6 - 900e3 = -4e5-12 b) The resistance is regulate O RTHE is too small Re is to large 15019/1.54=5.844 26 cells 61.54=9.24V c) Internal registance will lower terminal voltage