%Problem 2: Air Conditioning Unit %Define variables %n= the number of light bulbs, Elb= energy emitted by each light bulb, %number of appliances, Ea= energy emitted by appliances, Eo= energy from %outside n=20; Elb=100; a=4; Ea=500; Eo=3000; %Amount of heat that air-conditioner must remove from home per second Etotal=(n*Elb)+(a*Ea)+Eo %Air conditioner must remove 7000 J/s, 4 needed if they can handle 2000 J/s Redefine amount of energy emitted by lightbulb when using CF bulbs Elb=18; Etotal=(n*Elb)+(a*Ea)+EoEtotal = 7000 Etotal = 5360

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