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First, convert the 10

degrees Celsius to Kelvin.

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for heat conduction to solve

for heat flux.  $k=0.029 \text{ W/m-K}$ ,

$\Delta T= 283.15\text{K}$ , and

$L=0.02\text{m}$ . This will give you

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410.5675 W/m<sup>2</sup>. Part b:  
Multiply your heat flux by  
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solution uses the fact that  
the sum of the moments  
equals 0.

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Consider a thin electrical  
heater attached to a plate  
and backed by insulation.  
Initially, the heater and  
plate are at the temperature  
of the ambient air,  $T$   
?. Suddenly, the power to the  
heater is activated,  
yielding a constant heat  
flux  $q''_0$  ( $\text{W/m}^2$ ) at the  
inner surface of the plate.  
(a) Sketch and label, on  $T - x$   
coordinates, the  
temperature distributions:  
initial, steady-state, and



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