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## Radiative Heat Transfer - - Unit 3 - Week 2



💭 1409 К	
No, the answer is incorrect. Score: 0	
Accepted Answers: 1474 K	
7) Consider a small cubical black-walled enclosure with side 10 cm. The bottom surface is <b>1</b> electrically heated to 1500 K, while the side walls are insulated. The top side is exposed to the environment, such that its temperature is 500 K. The heating requirements for the bottom wall is	point f
17000 W	y
15000 W	
0 1500 W	4
1700 W	in
No, the answer is incorrect. Score: 0	<b>Q</b> +
Accepted Answers:	0
1700 W	
8) Which of the following is true for metallic surfaces 1	point
The surface emissivity does not depend on direction	
Have very low reflectivity	
Are almost transparent outside a small spectral interval	
Have low emissivity	
No, the answer is incorrect. Score: 0	
Accepted Answers: Have low emissivity	
9) Which of the following statements is always true for a diffuse surface 1	point
Has an emissivity of 1	
Emissivity does not depend on wavelength	
Spectral hemispherical emissivity is equal to spectral hemispherical absorptivity	
Total hemispherical emissivity is equal to total hemispherical absorptivity	
No, the answer is incorrect. Score: 0	
Accepted Answers: Spectral hemispherical emissivity is equal to spectral hemispherical absorptivity	
10)An isothermal plate (gray surface) at T=300 K with emissivity 0.5 is exposed to normal solar $1$ radiation of 1000 W/m <sup>2</sup> . The radiosity of the plate surface is	point
629.63 W/m <sup>2</sup>	
729.63 W/m <sup>2</sup>	
640.45 W/m <sup>2</sup>	
780.43 W/m <sup>2</sup>	
No, the answer is incorrect. Score: 0	
Accepted Answers: 729.63 W/m <sup>2</sup>	

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