

The absolute temperature of a body is $1000^{o}R$. What's the equivalent temperature in ^{o}C ?

282.2

5 Multiple Answer 1 point

Which of these are the correct values for the specific heat of water?

- $4.2kJ\,kg^{-1}\,K^{-1}$
- $lacksquare 1BTU\,lb^{-1}\,F^{-1}$
- $ightharpoonup 778 lb ft \, lb^{-1} \, F^{-1}$

temperature

6 Numeric 1 point

The latent heat of vaporization of water under 1 atm is 2260 kJ/kg. What's the latent heat of vaporization of water in BTU/lb?

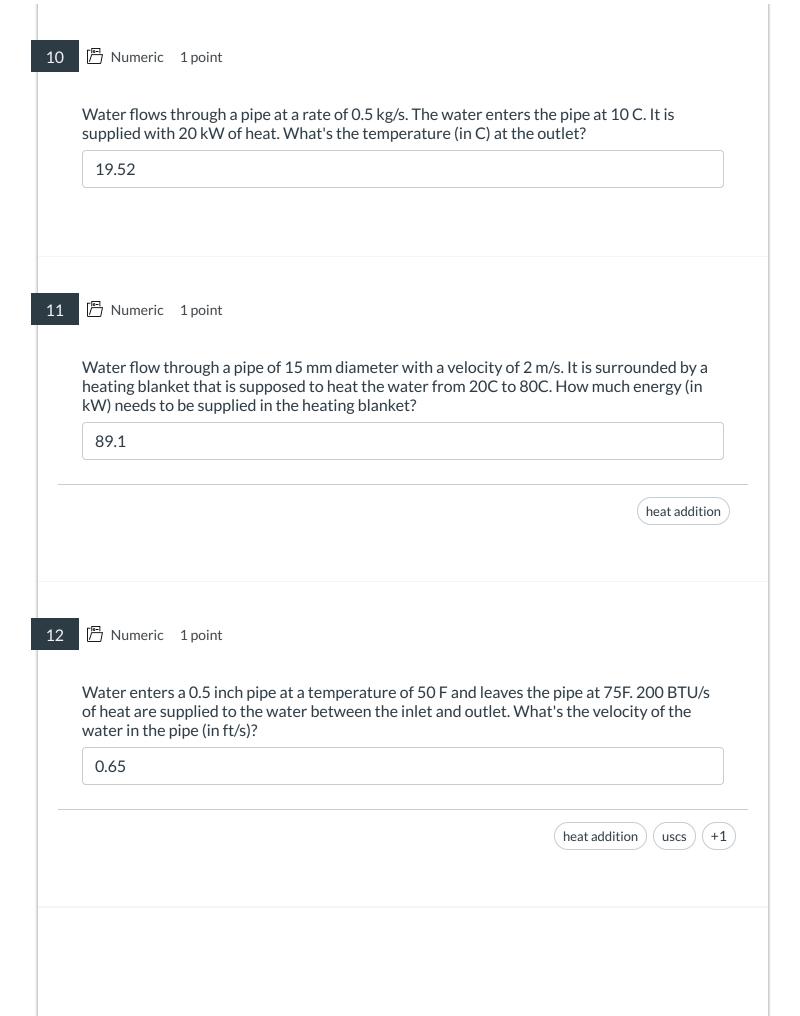
975

unit conversion

uscs

+1







A utensil contains 3 kg of water at 20C is placed on a stove with a 2 kW burner and heated for 15 minutes. How long (in minutes) will it take all the water to boil away?

64.9

17 Numeric 1 point

A pump with an efficiency of 90% is supplied with 2 kW of electrical power. It operates between two large tanks, both at atmospheric pressures. The lower tank is 1 m below the level of the pump while the higher tank is 5 m above the level of the pump. What's the flow rate (in liters/minute) of the water in the pipe? Neglect losses in the pipe.

1,834

bernoulli) (pump

18 Numeric 1 point

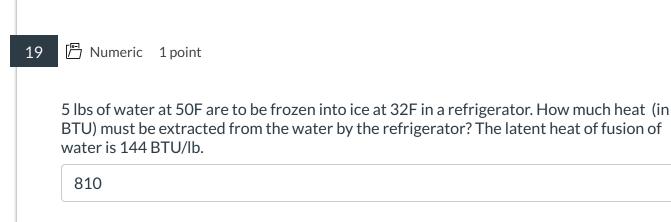
A pump with an efficiency of 90% is supplied with 2 kW of electrical power. It operates between two large tanks, both at atmospheric pressures. The lower tank is 1 m below the level of the pump while the higher tank is 5 m above the level of the pump. The work due to losses in the pipe is equivalent to 5 J/kg. What's the flow rate (in liters/minute) of the water in the pipe?

1.691

pump, water, reservoir, be...

pump

+2



heat removal

refrigeration

20 Numeric 1 point

5 lbs of water at 50F are to be frozen into ice at 32F in a refrigerator. If the coefficient of performance of the refrigerator is 3, how much work (in BTU) must be supplied to the refrigerator? The latent heat of fusion of water is 144 BTU/lb.

270