%assman 15% How do you convert the following temperature in Celsius Question 70e4e + Example Socratic A.

We re given 3 temperatures in Kelvin K and asked to convert them to degrees Celsius oC. There is a general formula for converting from Kelvin to Celsius and hence Celsius back to Kelvin

The Celsius temperature from a given Kelvin temperature is oC = K 273 Let s use this formula to convert the three given Kelvin temperatures to Celsius oC = 583K 273 = 310oC oC = 200K 273 Please check the text of question

x and y distances are measured from the respective focal points and not from lens. Following formula is known as Gaussian Lens Formula 1 O+1 I=1 f where O is object distance I is image distance and f focal length of lens

An alternate lens formula is known as the Newtonian Lens Formula which can be obtained by substituting O = f + x and I = f + y into A flexible .556 L container holds air at a temperature of 27.3 degrees C

If the container is cooled so that the new volume of the gas is .214 L what is the new temperature of the air in Celsius? Chemistry Aug 3 2016 As you know changes in temperature are identical for temperature expressed in degrees Celsius and for Kelvin you can say that the calorimeter has a heat capacity of 1 kJ ^ C ^ 1 A real image is formed by the combination and is magnified 5times Let us assume that object is located in front of combination lens so that as per sign convention u is taken as negative

Magnification m= 5 Also m= Image distance Object distance =v u

Inserting given values we get 5= 20 v =>v=4 cm Using the lens formula we get 1 f_c =1 v 1 u where f_c is focal length of the Jan 17 2018 The material is heated thus it is expected that the temperature of the material will also increase

This problem can be solved using the standard formula Q = mCpT where Q = is the heat energy m = the mass of the material Cp = the specific heat capacity T = the change in temperature where T = T f T i final initial temperatures Now refer to the problem to identify given data that Jan 7 2018 1.3 * 10^ 23 formula units For starters it s worth pointing out that you re not dealing with molecules of iron III fluoride here because this compound is ionic

So a more accurate statement here would be that the problem wants you to find the number of formula units of iron III fluoride present in that sample. Now the key here is the molar mass of iron III fluoride which you will find The formula would be CaSO4

Since SO4 2 is a polyatomic ion with a 2 charge and calcium Ca has a charge of 2+ the formula would balance out

In this case to write the equation you would write the metal first the the

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