

Homework #8
Due in class Wednesday, March 28

Answer parts 1 and 2 on a separate sheet of paper. You do NOT need to print this to hand in with your answers.

Part 1. Definitions

1. For each of the terms below, write two sentences. The first sentence should be a definition **in your own words**, and the second should be an explanation of how this concept is significant in Astronomy.
 - a) Differentiation
 - b) Protoplanetary Disk
 - c) "Dust"
 - d) Infrared Excess

2. Assuming that they start with the same protoplanetary disks, which of the following two systems would have LESS time in which to form planets? Justify your answer in words and using the equations for the momentum of photons and massive particles in your explanation.
 - (a) A system with a sun-like star
 - (b) A system with a hotter star that emits more high-energy light

Part 2. Math Skill #6: Dimensional Analysis Problems

See website