1. Both power-law (high-stress) creep and plastic yielding are dominated by dislocations. What is the major difference between them, in terms of dislocation behavior?

2. Equiaxed MAR-M 247 MFB alloy (see the figure below) is to support a stress of 207 MPa. At what temperature (°C) will the creep lifetime be 210 h?

Bonus Question: In addition to the steady-state (secondary) creep strain rate, $\dot{\varepsilon}_{ss}$, list two other parameters that we can use to characterize the creep resistance of a material. What are their definitions?