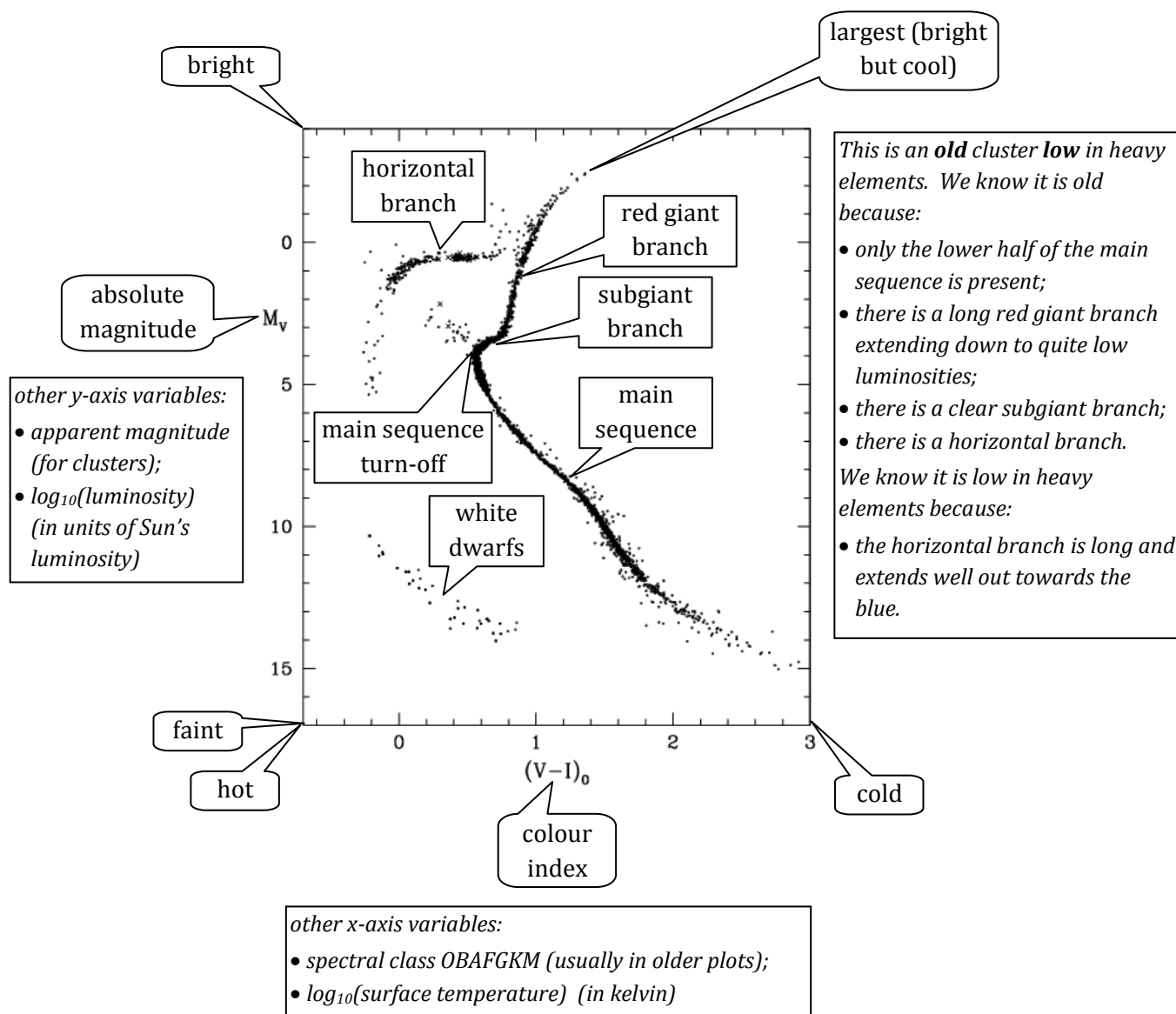


THE HERTZSPRUNG-RUSSELL DIAGRAM

QUICK REFERENCE GUIDE TO AXES AND BRANCHES



For comparison:

Shown on the right is the HR diagram of a *young* open cluster. Note that the main sequence extends much further up and to the left (even if the diagrams are drawn in terms of apparent magnitude, you can tell the difference between a main sequence that stops in the middle of the diagram and one that extends all the way to the left-hand edge); there are very few red giants, and they are very bright; there is no subgiant branch—there is a gap between the main sequence and the giants; there is no horizontal branch.

The heavy element content of young clusters is difficult to determine “by eye”—you need computer codes. In an exam, you would say that you could not determine the heavy element content of this cluster.

