

HW 1, #1

a) How many WDs lie within 10 pc of the Sun?

$$20$$

b) The WD with smallest apparent magnitude, which will appear brightest, is the one with

$$m_g = 8.524$$

c) Could we see this star with the naked eye?

No, the limit for unaided eyes is $m_g \lesssim 6$.

d) This white dwarf is

the companion to Sirius: Sirius B