**Seminar sheet 2**

1. Stars A and B are of equal brightness

dA = 120pc

dB = 24 pc

Which star has greater luminosity?

Star A is brighter by a factor of around 25

1. The star Procyon has an apparent brightness of 1.310-11 that of the sun and is a distance of 3.5 pc from the Earth. What is the luminosity of Procyon?

-2.5 log(f) =1.310-11