

HW4-6 Soln)

$$\lambda_{MAX} = (0.00298 \text{ mK}^{-1}) T^{-1}.$$

For A:

$$\lambda_{MAX} = \frac{(0.00298 \text{ mK}^{-1})}{3000} = 9.93 \times 10^{-7} \text{ m}.$$

Star A will appear to be red to a human eye.

For B:

$$\lambda_{MAX} = \frac{(0.00298 \text{ mK}^{-1})}{50\,000} = 5.96 \times 10^{-8} \text{ m}.$$

Star B will appear to be blue to a human eye.

