

Names _____

ASTRONOMY - IN-CLASS EXERCISE – STELLAR PROPERTIES

1. Describe these stars as BRIGHT or DIM:

A LARGE, HOT NEARBY star?

A SMALL, COLD, DISTANT star?

A LARGE, COLD, NEARBY star?

A SMALL, HOT NEARBY star?

A LARGE, COLD, DISTANT star?

2. Suppose you see a DIM BLUE STAR in the sky with your eyes.

Is that star hot or cold?

Does that star probably have a LARGE or SMALL PARALLAX?

Suppose I told you that the star had a large parallax. What could you conclude about it?

3. Suppose you see a BRIGHT RED STAR in the sky with your eyes.

Is that star hot or cold?

Does that star probably have a LARGE or SMALL PARALLAX?

Suppose I told you that the star had a small parallax. What could you conclude about it?

4. Suppose you see a dim red star with a small parallax THAT YOU KNOW IS VERY HOT. How would you explain this?