

Name _____ Date _____

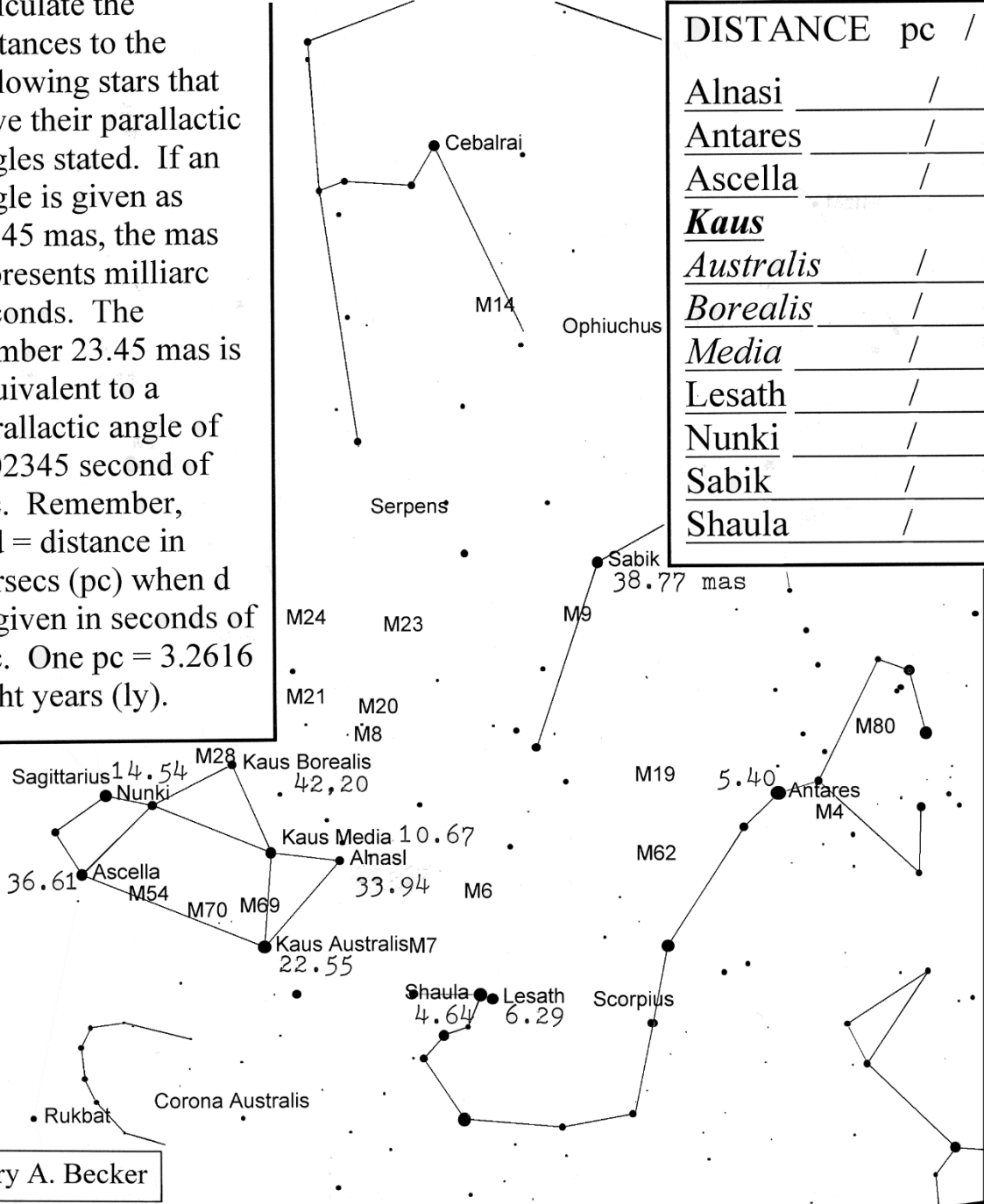
INSTRUCTIONS:

Calculate the distances to the following stars that have their parallactic angles stated. If an angle is given as 23.45 mas, the mas represents milliarc seconds. The number 23.45 mas is equivalent to a parallactic angle of 0.02345 second of arc. Remember, $1/d = \text{distance in parsecs (pc)}$ when d is given in seconds of arc. One pc = 3.2616 light years (ly).

Calculating Stellar Distances

DISTANCE pc / ly

<u>Alnasi</u>	_____ / _____
<u>Antares</u>	_____ / _____
<u>Ascella</u>	_____ / _____
<u>Kaus</u>	
<u>Australis</u>	_____ / _____
<u>Borealis</u>	_____ / _____
<u>Media</u>	_____ / _____
<u>Lesath</u>	_____ / _____
<u>Nunki</u>	_____ / _____
<u>Sabik</u>	_____ / _____
<u>Shaula</u>	_____ / _____



Gary A. Becker

SE South SW

CALCULATIONS
(Significant numbers are necessary)

1. Alnasi:

2. Antares:

3. Ascella:

4. Kaus Australis:

5. Kaus Borealis:

6. Kaus Media:

7. Lesath:

8. Nunki:

9. Sabik:

10. Shaula: