

Observational round answers

1. (9)

- a) α UMa
- b) Ursa Major

2. (10)

Correct answer between 14° - 17° .

3. (11)

a)

I'st group (mid-round time 22:10)

Az.: $320^\circ \pm 5^\circ$ ($140^\circ \pm 5^\circ$) h: $47^\circ \pm 5^\circ$

II'st group (22:45)

Az.: $324^\circ \pm 5^\circ$ ($144^\circ \pm 5^\circ$) h: $44^\circ \pm 5^\circ$

III'st group (23:35)

Az.: $328^\circ \pm 5^\circ$ ($148^\circ \pm 5^\circ$) h: $40^\circ \pm 5^\circ$

IV'st group (00:10)

Az.: $332^\circ \pm 5^\circ$ ($152^\circ \pm 5^\circ$) h: $37^\circ \pm 5^\circ$

b)

I'st group (22:10)

$53^\circ \pm 5^\circ$

II'st group (22:45)

$56^\circ \pm 5^\circ$

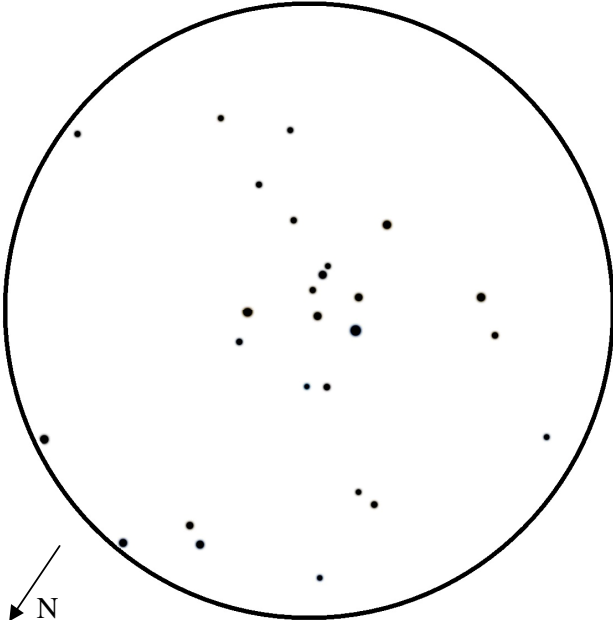
III'st group (23:35)

$60^\circ \pm 5^\circ$

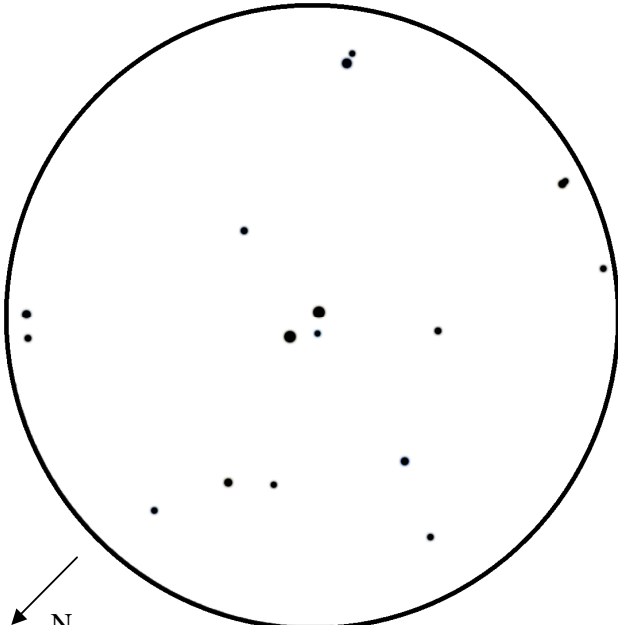
IV'st group (00:10)

$63^\circ \pm 5^\circ$

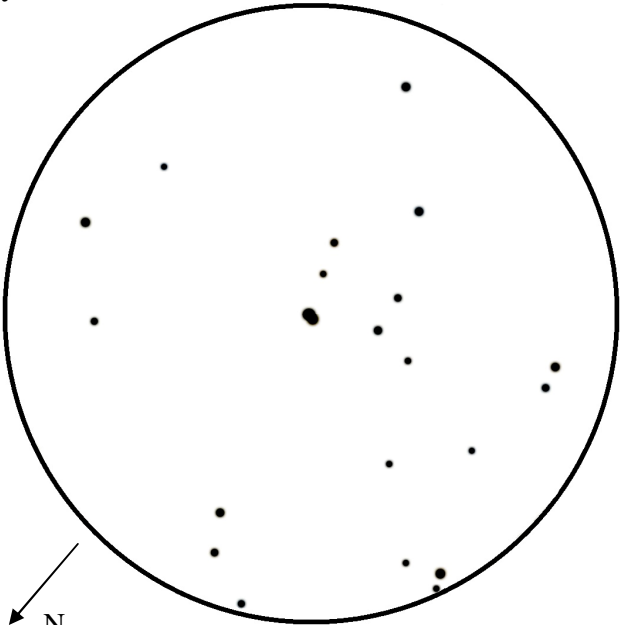
4. (12)



δ Lyr



ϵ Lyr



β Lyr