

Observing competition – night round

1. Finding objects on the sky (reserve question)

Using the refracting telescope and setting circles find the following objects on the sky.

Please call the Jury after putting each of objects in the field of view. Write down the telescope coordinates of each object.

Object	Catalogue Right Ascension α	Catalogue Declination δ	Telescope Right Ascension α	Telscope Declination δ	Jury confirmation
Albireo	19 ^h 31 ^m	+27° 57'			
ϵ Lyr	18 ^h 44 ^m	+39° 39'			
M 13	16 ^h 42 ^m	+36° 28'			
M 56	19 ^h 16 ^m	+30° 09'			
M 92	17 ^h 17 ^m	+43° 14'			
M 27	20 ^h 00 ^m	+22° 43'			

Note: Assume that the equatorial mount is orientated with a small error relative to the cardinal points N, S, E, W. Note that the coordinates of Vega (α Lyr) are: $\alpha = 18^{\text{h}} 37^{\text{m}}$, $\delta = +38^{\circ} 45'$.