

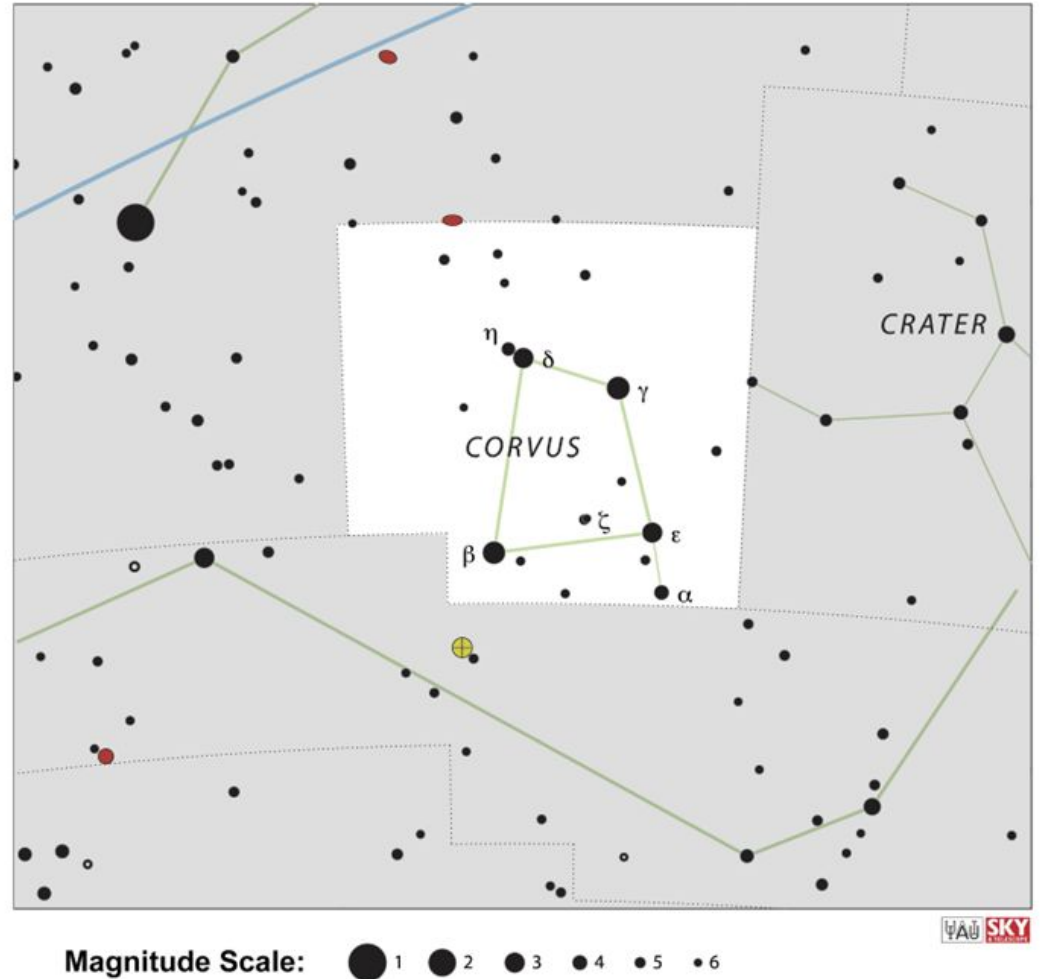
STAR CHART TEST



1) Total: 6 points

Consider that the angular distance between the stars Kraz (Beta Corvi) and Spica (Alpha Vir) is 17.2° .

Using the Star Chart, draw the circumference and count which stars between magnitudes 4 and 6 exist within a radius of 8° from Alpha Corvi.

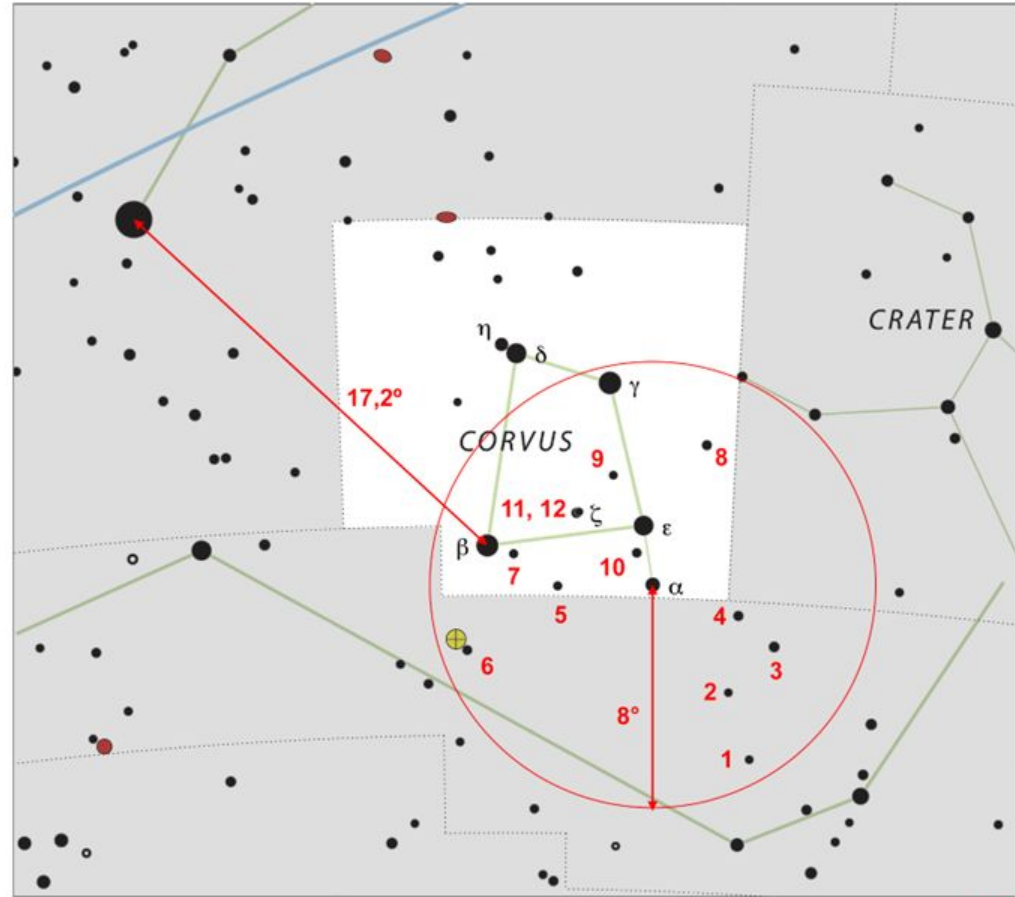


0.5 points per star.

12 stars, total: 6 points.

3 stars are not included in the count, as their magnitudes are less than 4.

The student can solve this question with a ruler and a drawing compass.



Magnitude Scale:



2) Total: 8 points

2.1) 2 point

On the Star Chart, identify and mark the Cardinal Points N, E, S and O.

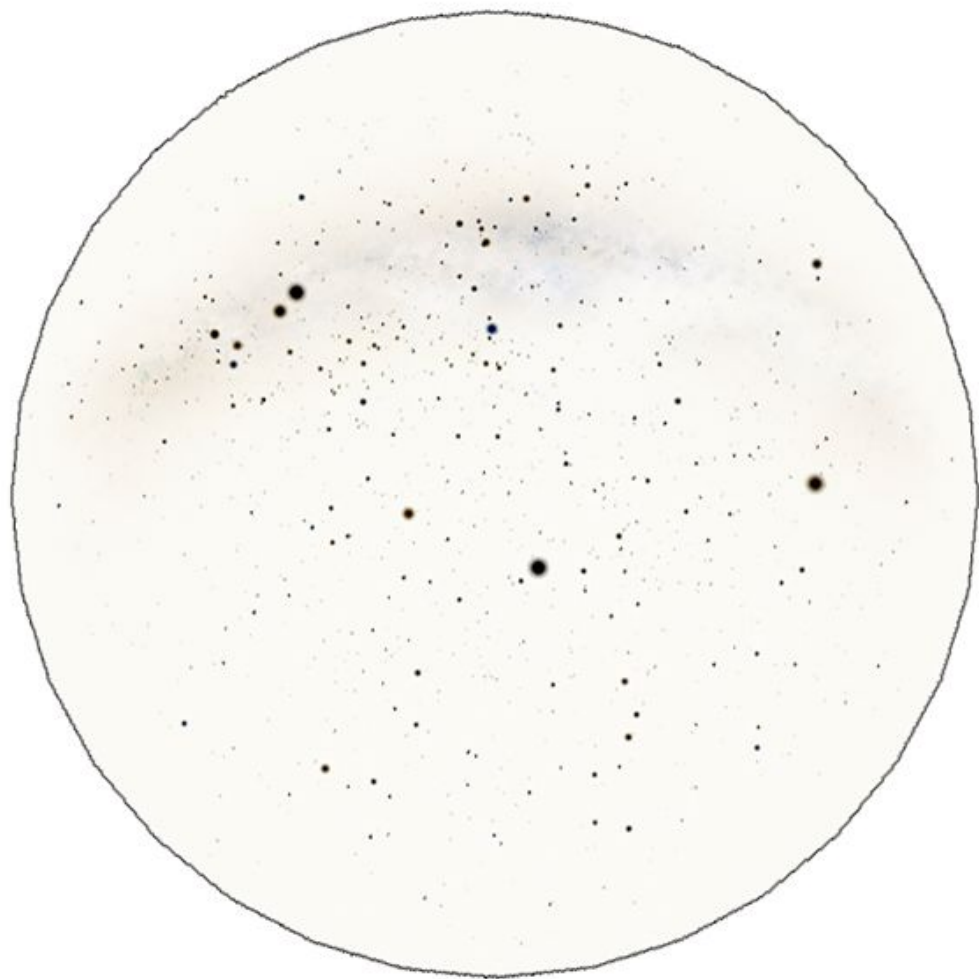
2.2) 1 point for each line

Next, draw the Celestial Equator, the Local Meridian and the Ecliptic.

2.3) 1 point for each star (star outside the card: -1 point)

Mark with an X the stars present on the Celestial Chart.

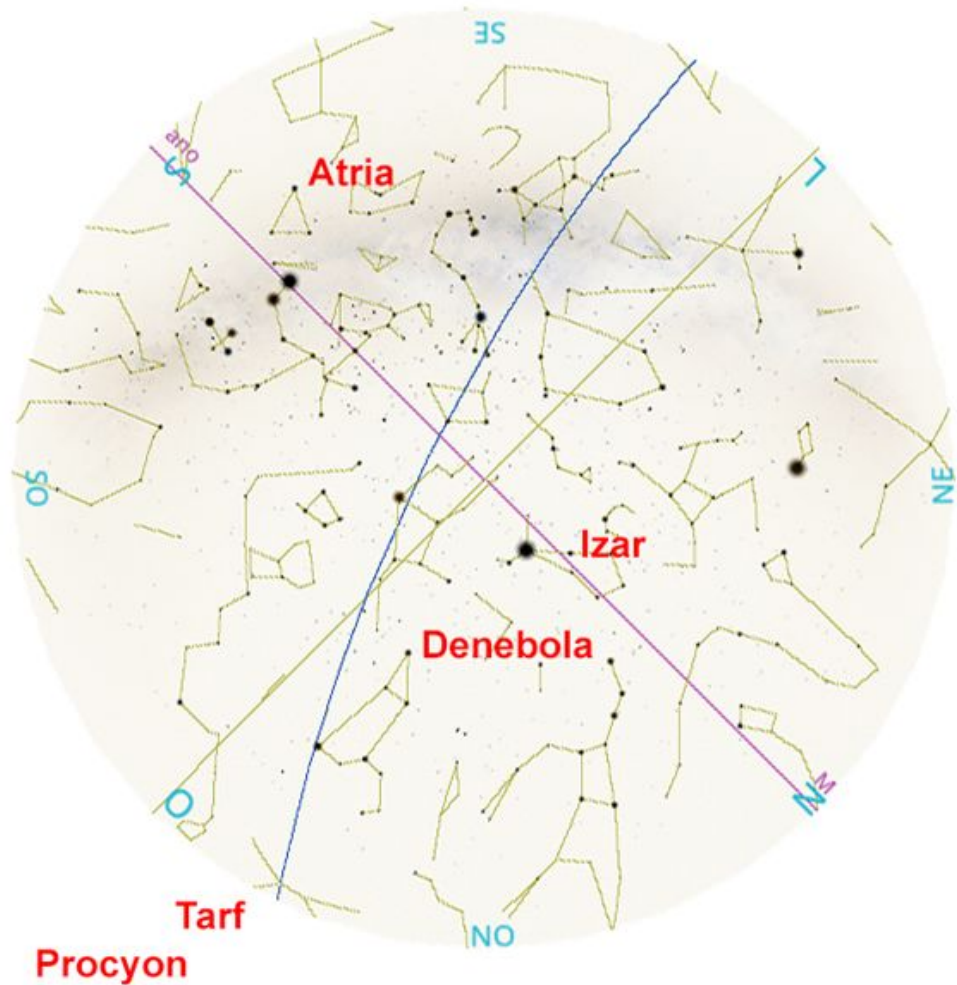
Procyon α CMi	()	Denebola β Leo	()	Izar ϵ Boo	()	Atria α TrA	()	Tarf β Cancr	()
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The Star Chart was generated for a location on the Equator, so the Celestial Equator and the local Meridian are straight lines and the Celestial Poles are on the edge of the Chart, which was still rotated by 45° .

Present on the Celeste Chart are the stars Denebola, Izar and Atria.

To draw the Ecliptic the student needs to draw a curve between the constellations of Cancer and Capricorn, necessarily passing close to Regulus, Spica, Zubenelgenubi (Alpha Librae) and Acrab.



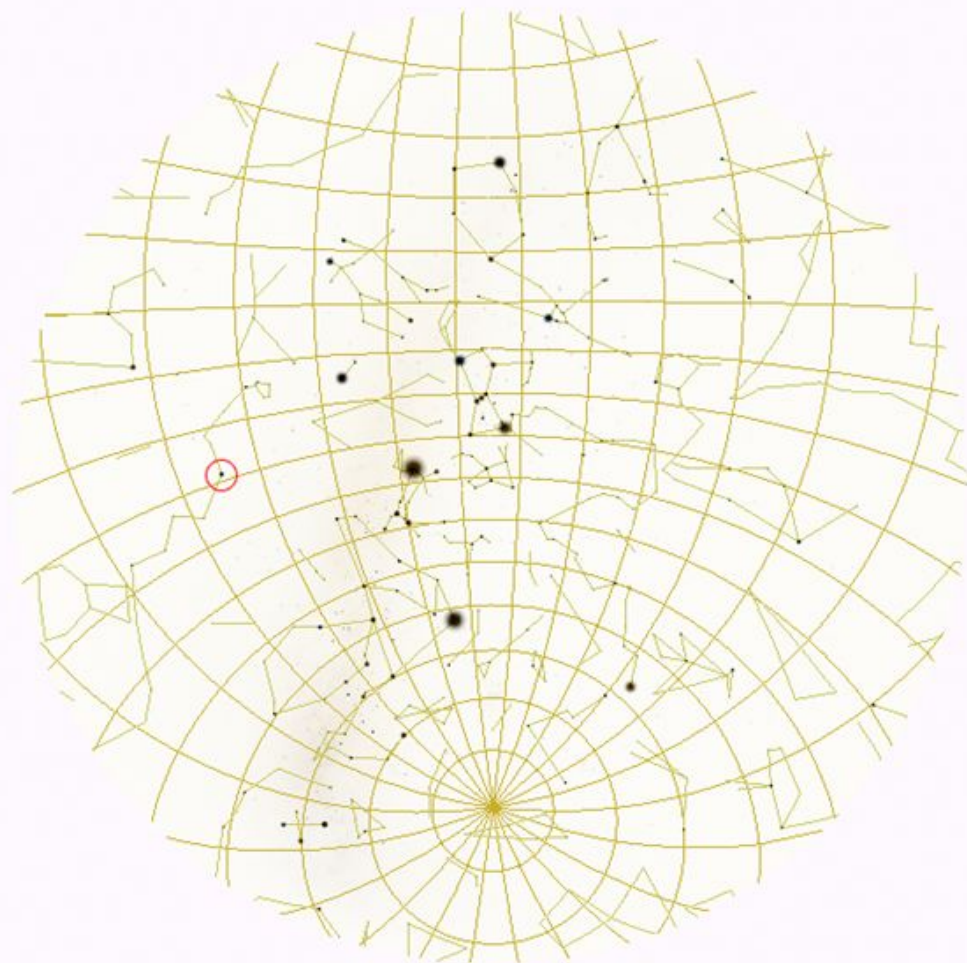
3) Total: 6 points

3.1) 2 points for identifying the star and 1 point for the meridian crossing time

Identify the star marked on the map (use Bayer's denomination) and evaluate the time of its passage through the local meridian, knowing that this map corresponds to 11pm.

3.2) 3 points for the time the star sets

Evaluate what time β Crucis will be below the horizon



1 point if the student answers
3 am +/- 10 min

3 points if the student writes that β Crucis will be below the horizon between 3:45 pm and 4 pm the next day

