

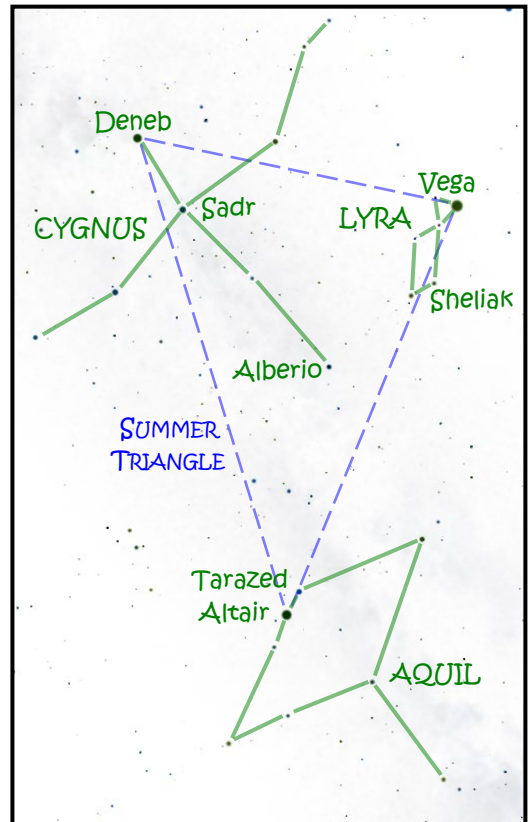
STAR DISTANCES AND MAGNITUDES

1)³³ For the Summer Triangle stars below, complete the table²⁴ and label the diagram with star and constellation names⁹ (looking straight up from SLU at 10 pm on August 26) by using Appendix 2, pp. 514-526, and Atlas Charts 18, 19 & 31 in the Field Guide.

Apx. 2 in order of RA

BAYER DESIGNATION	RA	VISUAL MAGNITUDE (V)	ABSOLUTE MAGNITUDE (M _V)	DISTANCE (ly)	OTHER NAME
α Cyg	20 ^h 41 ^m	1.25	-7.5	1467	Deneb
β Cyg	19 ^h 31 ^m	3.08	-1.5	385	Alberio
γ Cyg	20 ^h 22 ^m	2.20	-4.1	522	Sadr
α Lyr	18 ^h 37 ^m	0.03	0.6	25	Vega
β Lyr	18 ^h 50 ^m	3.4	-4.1	881	Sheliak
α Aql	19 ^h 51 ^m	0.77	2.1	17	Altair
γ Aql	19 ^h 46 ^m	2.72	-2.6	326	Tarazed

Learn the stick figures for Cygnus, Lyra, and Aquila.



2)⁶ List the stars in the table in order of distance from the Sun. (Use the "Other Name")

NEAREST

FARTHEST

Altair	Vega	Tarazed	Alberio	Sadr	Sheliak	Deneb
--------	------	---------	---------	------	---------	-------

3)⁶ List the stars in the table in order of increasing brightness as seen in the sky.

DIMMEST

BRIGHTEST

Sheliak	Alberio	Tarazed	Sadr	Deneb	Altair	Vega
---------	---------	---------	------	-------	--------	------

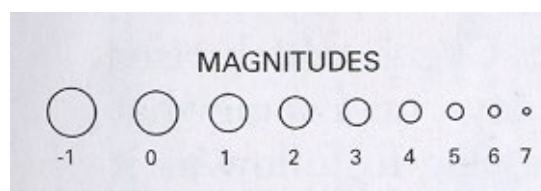
4)⁶ List the stars in the table in order of increasing brightness for all at the same distance (eg. 32.6 ly).

DIMMEST

BRIGHTEST

Altair	Vega	Alberio	Tarazed	Sheliak	Sadr	Deneb
--------	------	---------	---------	---------	------	-------

Same!



Smaller number ⇒ Brighter object