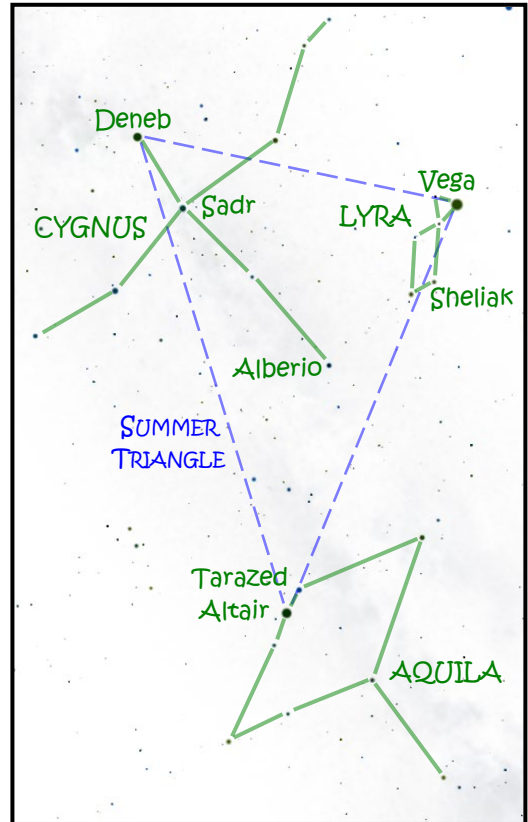


### STAR DISTANCES AND MAGNITUDES

1)<sup>33</sup> For the Summer Triangle stars below, complete the table<sup>24</sup> and label the diagram with star and constellation names<sup>9</sup> (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 <sub>v</sub> )	DISTANCE (ly)	OTHER NAME
α Cyg	20 <sup>h</sup> 41 <sup>m</sup>	1.25	-7.5	1467	Deneb
β Cyg	19 <sup>h</sup> 31 <sup>m</sup>	3.08	-1.5	385	Alberio
γ Cyg	20 <sup>h</sup> 22 <sup>m</sup>	2.20	-4.1	522	Şadr
α Lyr	18 <sup>h</sup> 37 <sup>m</sup>	0.03	0.6	25	Vega
β Lyr	18 <sup>h</sup> 50 <sup>m</sup>	3.4	-4.1	881	Şheliak
α Aql	19 <sup>h</sup> 51 <sup>m</sup>	0.77	2.1	17	Altair
γ Aql	19 <sup>h</sup> 46 <sup>m</sup>	2.72	-2.6	326	Tarazed



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

2)<sup>6</sup> List the stars in the table in order of distance from the sun. (Use the "Other Name")

<i>NEAREST</i>	<i>FARTHEST</i>					
Altair	Vega	Tarazed	Alberio	Şadr	Şheliak	Deneb

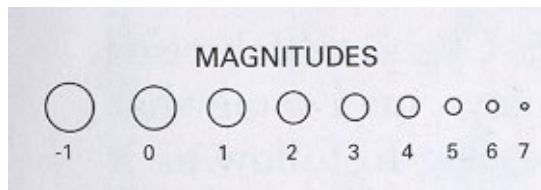
3)<sup>6</sup> List the stars in the table in order of increasing brightness as seen in the sky.

<i>DIMMEST</i>	<i>BRIGHTEST</i>					
Şheliak	Alberio	Altair	Şadr	Deneb	Tarazed	Vega

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

<i>DIMMEST</i>	<i>BRIGHTEST</i>					
Altair	Vega	Alberio	Tarazed	Şheliak	Şadr	Deneb

Same!



Smaller number ⇒ Brighter object