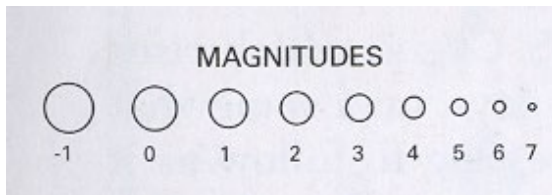
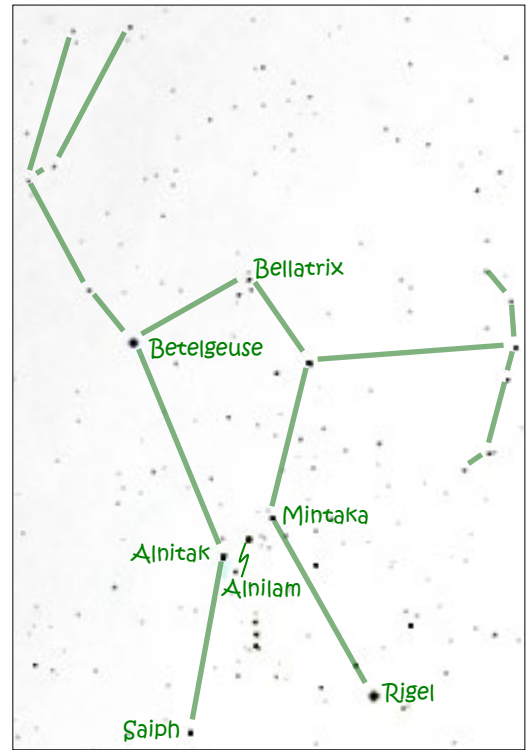


STAR DISTANCES AND MAGNITUDES

For the stars in Orion listed below, **complete the table and label the diagram** with "other" star names listed in the table (looking south from SLU at 9 pm on January 25) by using Appendix 2 and Atlas Chart 24 in the *Field Guide*.³¹

ApX. 2 in order of RA

BAYER DESIGNATION	RA	VISUAL MAGNITUDE (V)	ABSOLUTE MAGNITUDE (M _v)	DISTANCE (ly)	OTHER NAME
α Ori	5 ^h 51 ^m	0.5	-5.0	522	Betelgeuse
β Ori	5 ^h 15 ^m	0.12	-6.6	773	Rigel
γ Ori	5 ^h 25 ^m	1.64	-2.8	243	Bellatrix
κ Ori	5 ^h 48 ^m	2.06	-5.0	815	Şaiph
δ Ori	5 ^h 32 ^m	2.23	-5.4	916	Mintaka
ε Ori	5 ^h 36 ^m	1.70	-6.6	1342	Alnilam
ζ Ori	5 ^h 41 ^m	2.05	-5.5	817	Alnitak



List the stars in the above table in order of distance from the sun. (use the Bayer Designation ... both Greek letter and Constellation abbreviation).⁸

NEAREST	FARTHEST
Bellatrix	Alnilam
Betelgeuse	Mintaka
Rigel	Şaiph
Şaiph	Alnitak
Alnitak	Rigel

List the stars in the above table in order of increasing brightness as seen in the sky.⁸

BRIGHTEST	DIMMEST
Rigel	Mintaka
Betelgeuse	Şaiph
Bellatrix	Alnitak
Alnilam	Rigel
Alnitak	Betelgeuse

List the stars in the above table in order of increasing brightness if they were all at the same distance (eg. 32.6 ly).⁸

BRIGHTEST	DIMMEST
Rigel	Bellatrix
Alnilam	Şaiph
Alnitak	Mintaka
Mintaka	Betelgeuse
Betelgeuse	Rigel