

March 24, 2023
MSE 2101 topics

- Recap: luminosity, flux, and apparent magnitudes
- Absolute magnitude
 - what would be an apparent magnitude of a star at 10pc?
- Distance modulus
- Fill out the table below:

Star	Apparent mag	Absolute mag	Distance [pc]
Vega	0.00	0.6	
Betelgeuse	0.41		332.66
Sirius		1.4	2.68
Arcturus	-0.04		8.95
Proxima	-0.01	4.4	
Procyon	0.38		3.60
Altair		2.3	4.94
Aldebaran	0.85		16.98
Antares	0.92	-5.2	
Pollux	1.14		12.25
Regulus		-0.3	21.38
Deneb	1.25		489.78
Sun	-26.8		