

Data Analysis 2: Stars and Exoplanets (75 points)

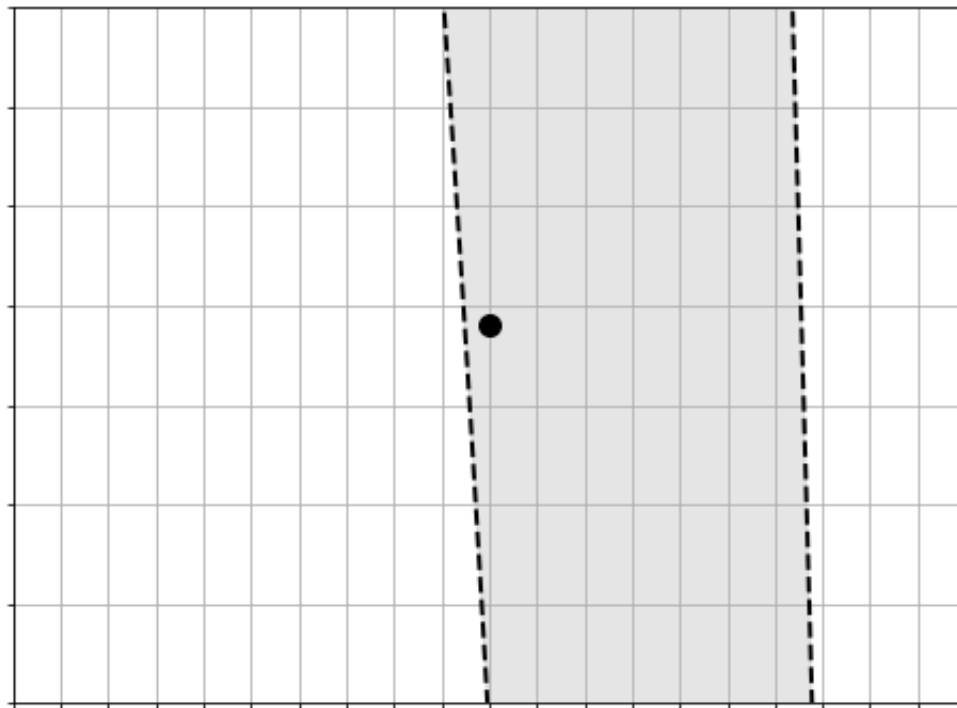
Part 1 (20 points).

1.1 (20.0 pt)

Luminosity of the star	Radius of the star	Mass of the star	Mean planet's orbital radius	Radius of the planet in Jupiter's radius
$L_{\star}$ [$L_{\odot}$]	R [$R_{\odot}$]	$M_{\star}$ [$M_{\odot}$]	a [au]	R_p [R_J]

Part 2 (25 points).

2.1 (15 pt)



2.2 (10.0 pt)

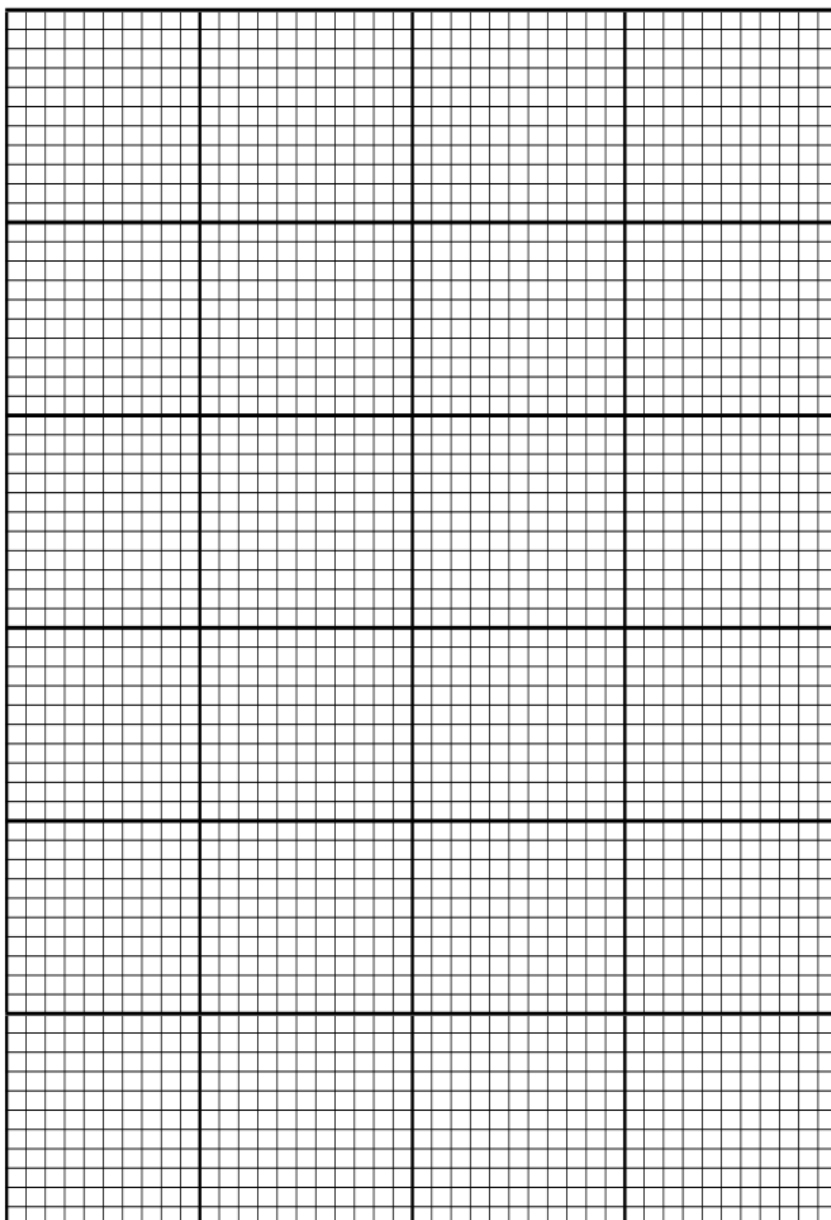
Planet's Name	In habitable zone? YES / NO
Tayrona	
Iguaque	
Gorgona	
Amacayacu	
Malpelo	
Pisba	
Tatamá	

Part 3 (30 points).

3.1 (10.0 pt)

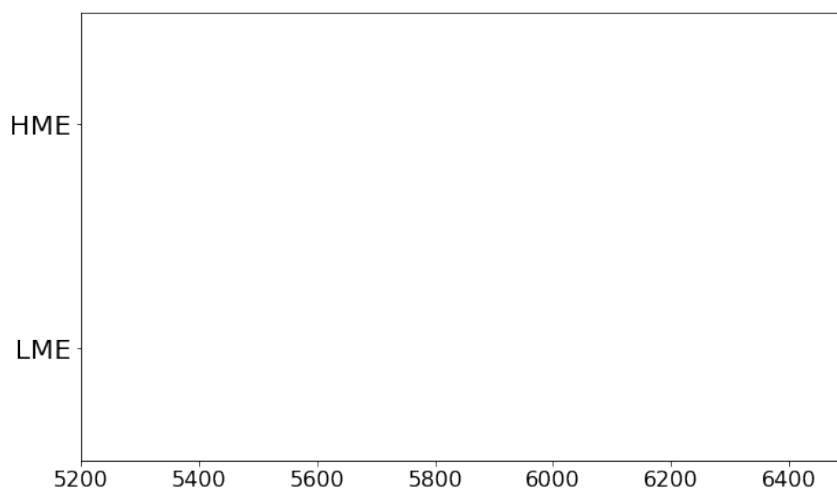
Low-mass sample	Sample size	μ	σ	$\mu + \sigma$	No. of planets to exclude
Full / Original	38				
1st subsample					
2nd subsample					
Final subsample		-	-	-	-

3.2 (5.0 pt)



3.3 (10.0 pt)

	Min.	1st Quartile	Median 2nd Quartile	3rd Quartile	Max
LME					
HME					

3.4 (5.0 pt)

Planetary type vs host star temperature (K)

YES	NO