Astronomy Ranking Task: Kepler's Laws - Orbital Motion

Exercise #4

Description: The table below provides a partial list of the orbital periods (in years), and orbital distances (in AU) for six planets orbiting a one solar-mass star. The mass of each planet is also provided (in Earth masses).

PLANET	ORBIT DISTANCE	PERIOD	MASS
	(Semi-major axis in AU)	(Years)	(Earth Masses)
A		20.0	500
В	0.8		375
C	3.0		100
D		2.0	50
E	5.0		3
F		3.5	0.5

Ranking Instruct closest) of the plan complete the table	nets (A - F) from	n the sta	ar. Not	e that it			te (from farthest to y, but may be helpful, to	
Ranking Order:	Farthest 1	2	3	4	5	6	_ Closest	
Or, the orbital distance for each of the planets would all be the same (indicate with check mark).								
Carefully explain your reasoning for ranking this way:								
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