

Nom : _____

PHYS 9



Final exam	Système solaire
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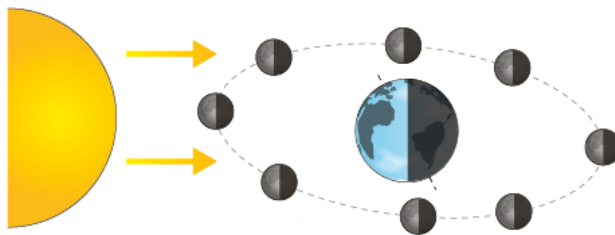
Exercice 1 (3 points) Donnez chaque définition :

Une étoile	Une planète	Un satellite

Exercice 2 (4 points) Cocher les bonnes cases :

	Une étoile ?	Une planète ?	Un satellite ?
a) La terre est...			
b) Le soleil est...			
c) La lune est...			
d) Ganymède est...			

Exercice 3 (8 points) Numérotez les lunes correctement :



- 1 Nouvelle lune
- 2 Premier croissant
- 3 Premier quartier
- 4 Lune gibbeuse croissante
- 5 Pleine lune
- 6 Lune gibbeuse décroissante
- 7 Dernier quartier
- 8 Dernier croissant

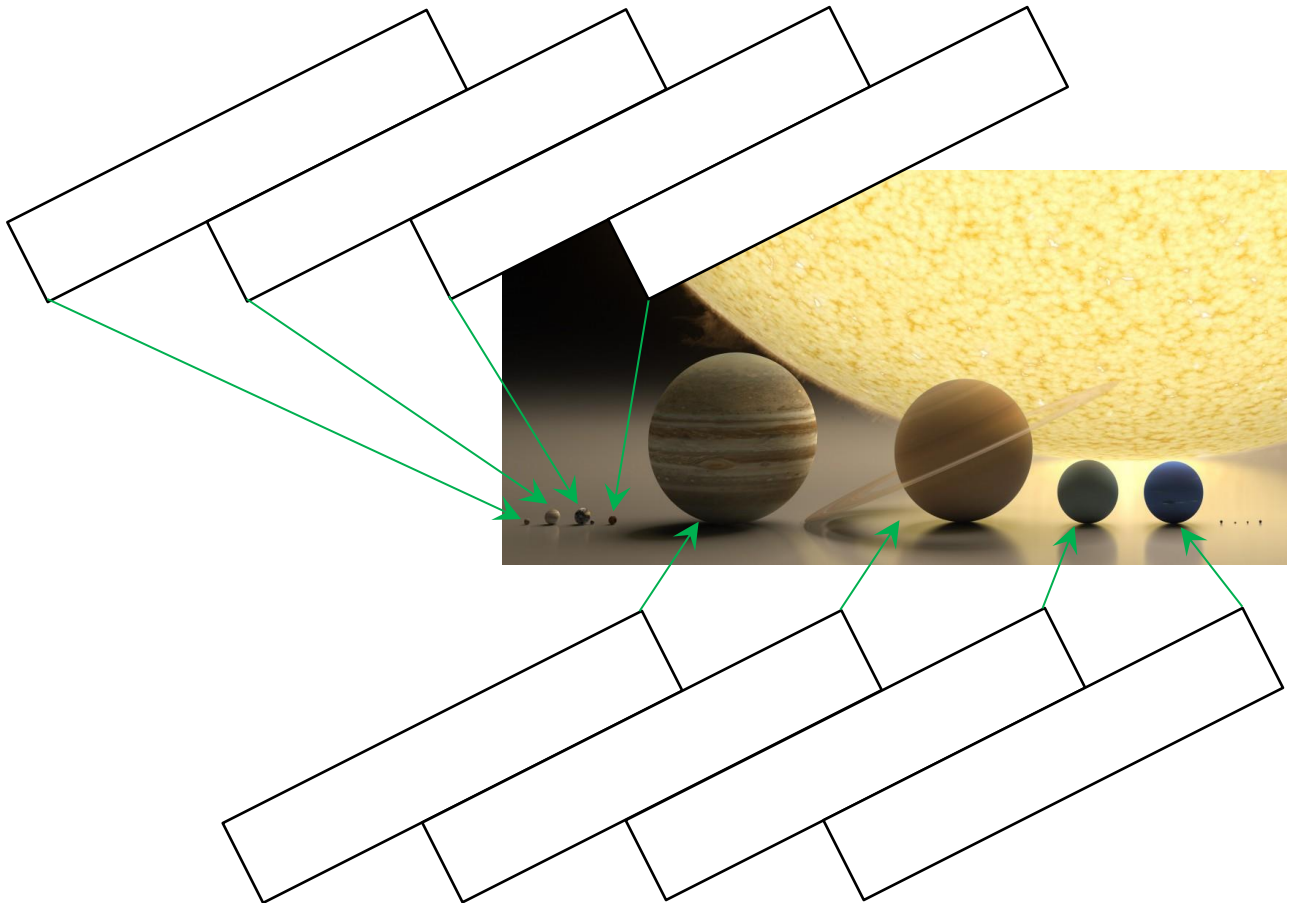
Exercice 4 (6 points)

- a) Knowing that the mass of Jupiter is 2×10^{27} kg, the mass of Ganymed is 1.5×10^{24} kg, and the distance between them is 1 000 000 km, calculate the **force of attraction** that Jupiter exerts on Ganymed.

- b) Caclulate by the same way the **force of attraction** that Ganymed exerts on Jupiter.

- c) Knowing that the radius of Ganymed is 5000 km, calculate the **acceleration** at the surface of this satellite.

Exercise 5 (8 points) Give the planets in order from the sun:



Exercise 6 (1 point) What is the best illustration of the distances between the planets?

