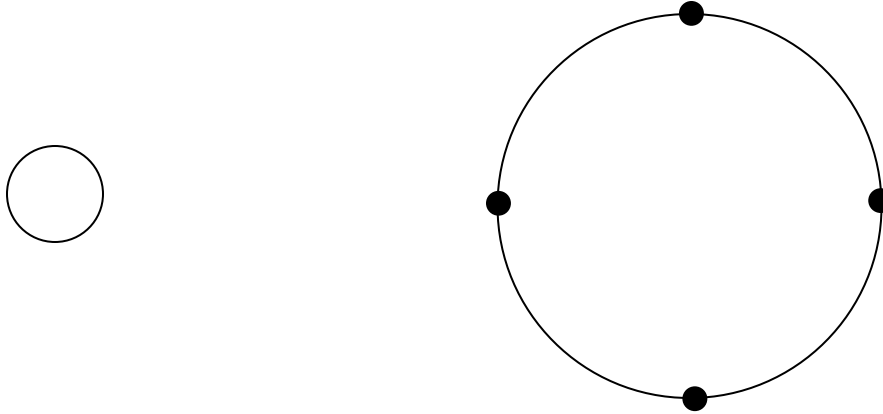


Two major forces combine to cause the tides. What are those two forces?

- 1.
- 2.

Draw both forces on this diagram of the Earth and Moon at the marked points on the Earth. Pay special attention to the **direction** and **magnitude** of each force vector.



Label at least one vector of each force type.

Draw the bulges of water that result from these forces acting on the Earth's oceans.

Write an H on the figure anywhere the Earth is experiencing a high tide, and **write an L** anywhere the Earth is experiencing a low tide.

The bulge of water pointing towards the Moon is often called the Gravitational Bulge.

Why is this term incorrect?

Define the following types of tides, and tell where on a continent-less planet you would expect to see each type.

Diurnal tide:

Where would you find it?

Semidiurnal tide:

Where would you find it?

Mixed tide:

Where would you find it?