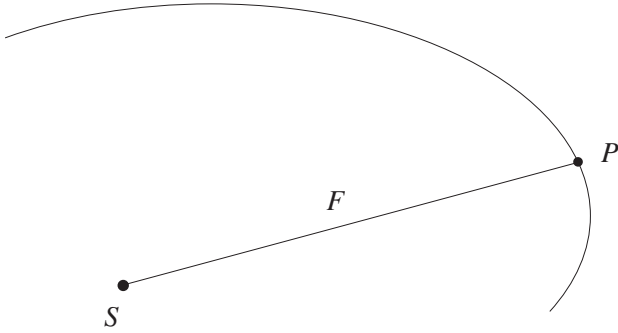


**Quiz**

**Name**

1. In the diagram below  $S$  and  $P$  are points and  $F$  designates the magnitude of a force. Precisely what assumptions about the force and how it acts does Newton make in his study of centripetal force in the Principia Mathematica?



2. In the figure below  $B$  is the midpoint of the segment  $AD$  and the segment  $CD$  is parallel to  $SB$ . Use this information to verify that the area of the triangle  $\Delta SAB$  is equal to the area of the triangle  $\Delta SBC$ .

