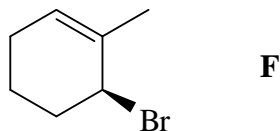


**Marks**  
**8**

- Consider compound **F** shown below.



Assign the stereocentre in compound **F** as (*R*) or (*S*), explaining your reasoning.

Assign the double bond stereochemistry in compound **F**, explaining your reasoning.

Draw the enantiomer of compound **F**.

When compound **F** is reacted with hydrogen gas in the presence of a palladium catalyst, two stereoisomeric products, **G** and **H**, are formed. Draw these products.

What word is used to describe the stereochemical relationship between **G** and **H**?