

**6. (15 points)** Propose a synthesis of **G** from **H**, maleic anhydride, and benzyl bromide (BnBr = PhCH<sub>2</sub>Br). (All of the substituents on the five-membered ring in **G** are cis to one another, and your synthesis must establish this relative configuration.) Your synthesis must use **H**, maleic anhydride, and BnBr. You may use any other reagents in addition to these. Write your synthesis **neatly** in the forward direction, and for each transformation, write the **reagents** necessary over the arrow.

