

Name: \_\_\_\_\_ *Problem of the Day #12 (10 points)*

**Frieze Patterns.** Draw the seven distinct frieze patterns one can make from the half-arrow motif



Use **ONLY** this motif (both shapes should be filled in dark)! Make sure you draw enough of the strip so that I can see the pattern you have made. Make sure each one satisfies **ONLY** the listed symmetries. Please be careful and complete in your drawings, as both **ACCURACY** and **NEATNESS** will count!!

a. Translation **ONLY**


b. Translation, Horizontal reflection, and Glide reflection **ONLY**


c. Translation and Vertical reflection **ONLY**


d. Translation and 180° Rotation **ONLY**


e. Translation and Glide reflection **ONLY**


f. Translation, Vertical reflection, 180° Rotation and Glide reflection **ONLY**


g. Translation, Horizontal reflection, Vertical reflection, 180° Rotation and Glide reflection
