

Dynamical Systems with Symmetry - ME225DS

Winter 2008

Homework #1 - Due Tuesday, January 15, in class

1. (a) (10 pts) Describe the symmetry properties of each of the capital letters:

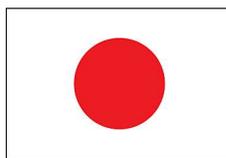
A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

- (b) (2 pts) What state name has reflection symmetry when written horizontally?
(c) (4 pts) What four state names have reflection symmetry when written vertically?
(d) (1 pt) Write down another word which has reflection symmetry when written horizontally.
(e) (1 pt) Write down another word which has reflection symmetry when written vertically.
(f) (2 pts) Write down a word which has 180° rotational symmetry.

2. (10 pts) Describe the symmetry properties of the following flags:



Canada



Japan



South Korea



Switzerland



United Kingdom