Math 116: HOMEWORK #15

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1.

• Draw a figure with the symmetry group

 $Z_1, Z_2, Z_3, Z_4, Z_5, Z_6, D_1, D_2, D_3$.

- Find the multiplication table for each of them.
- Recognize C_2 , C_3 , and C_5 among them.

2. For each of the following border patterns, give its symmetry type using the standard crystallography notation (mm, mg, m1, 1m, 1g, 12, 11).









AND

p.377, Chapter 9, #'s: $\mathbf{2}, \mathbf{4}, \mathbf{6}$