

Dummit & Foote Ch. 1.2: Dihedral Groups

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1. (1/23/23)

Compute the order of each of the elements in the following groups:

(a) D_6

- r, r^2 : 3
- s, sr, sr^2 : 2

(b) D_8

- r : 4
- r^2 : 2
- r^3 : 4
- s, sr, sr^2, sr^3 : 2

(c) D_{10}

- r, r^2, r^3, r^4 : 5
- s, sr, sr^2, sr^3, sr^4 : 2