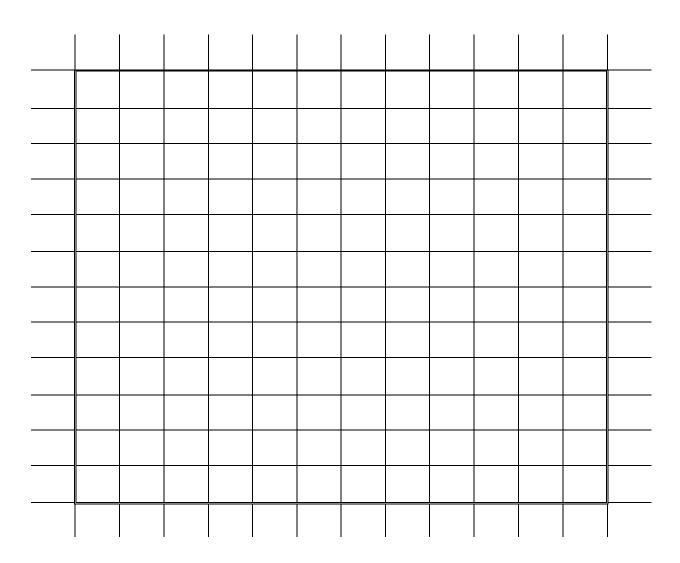NAME _____

HOMEWORK EXERCISES

Assignment 65—Twelve Tone 2: Constructing a Matrix

Section 1. Construct a 12 by 12 matrix for the prime form of a twelve-tone row given in pitch integers. Include labels for all row forms including all transposition levels (P$_0$, R$_3$, I$_8$, RI$_6$, etc.). Use note names in the matrix, not integers.

P$_6$: 6 4 11 10 3 9 7 8 5 2 0 1

(continued on next page)

Section 2. For the following excerpt, determine P_5 and identify each row form and statement.

Section 3. Given the prime form of a twelve-tone row in pitch integers, write the specified row forms in the staves below.

$$P_9: \quad 9 \quad 11 \quad 5 \quad 2 \quad 6 \quad 0 \quad 1 \quad 7 \quad 3 \quad 4 \quad 10 \quad 8$$

I_2

RI_1

(scratch paper)

Section 4. Referring to the row in Section 3 (P9: 9 11 5 2 6 0 1 7 3 4 10 8), label the row forms on the staves below.

Row form: _____

Row form: _____

Section 5. Set Theory Review. Referring to the row in Section 3 (P9: 9 11 5 2 6 0 1 7 3 4 10 8), put each set into normal form, prime form, and provide the interval vector.

	Set 1.	Set 2.	Set 3.
P9:	9 11 5	2 6 0 1	7 3 4 10 8

Set 1. Normal form: _____ Prime form: _____ Interval vector: _____

Set 2. Normal form: _____ Prime form: _____ Interval vector: _____

Set 3. Normal form: _____ Prime form: _____ Interval vector: _____

(scratch paper)