# Relations and Functions
# Simultaneous Roundtable

**Objective:  Students will be able to represent relations in a variety of ways and determine whether a relation is a function.**

**Set-up:  Students should be in groups of four with 1 copy of each of the 4 student sheets below.**

**Directions:**

1. Each student in the group has a sheet in front of them and simultaneously creates a mapping of their relation.
2. Students pass their papers to the person to their right and checks what the previous person has done for #1.  The student will then coach or praise the first student and then initial next to the check mark.
3. The student then moves on to making a table, and all students work on their own papers simultaneously.
4. The process continues until the first person has his/her own sheet back and checks to make sure everything was done correctly.

# Simultaneous Roundtable

Student _____

Period _____Date_____

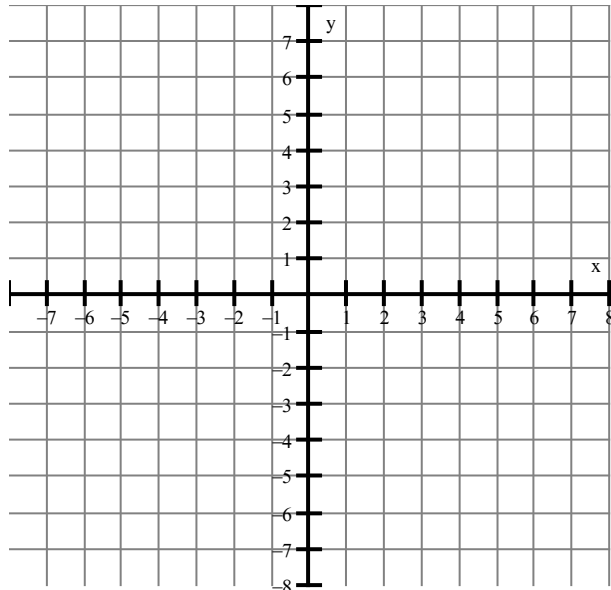**Relation:**

{(-1,1), (0,3), (1,5,), (2,7)}

**1. Create a mapping of the relation.**

✓_____

**2. Make a table of the relation.**

✓_____

**3. Create graph of the relation.**

✓_____

**4. Is the relation a function? How do you know?**

✓_____

# Simultaneous Roundtable

Student _____

 Period _____ Date _____

**Relation:**

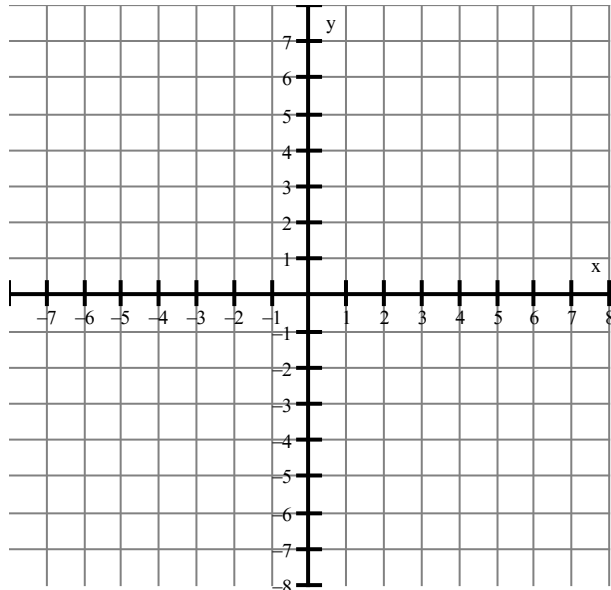$\{(4,5), (3,-2), (-2,5), (4,7)\}$

**1. Create a mapping of the relation.**

✓_____

**2. Make a table of the relation.**

✓_____

**3. Create graph of the relation.**

✓_____

**4. Is the relation a function? How do you know?**

✓_____

# Simultaneous Roundtable

Student _____

Period _____ Date _____

**Relation:**
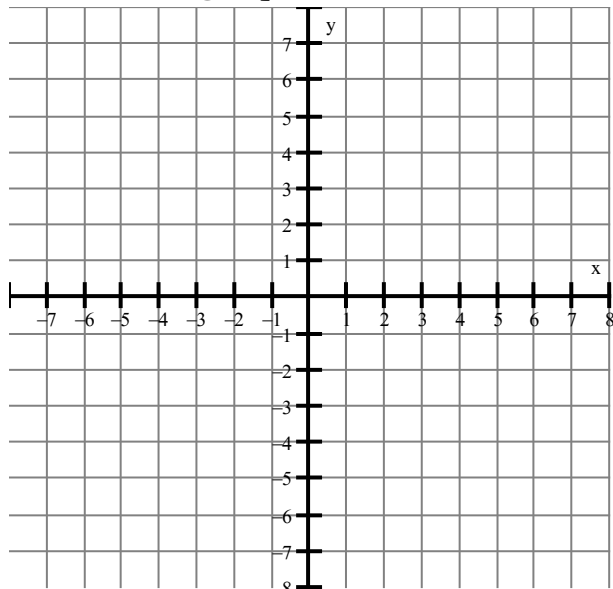
{(1,4), (-2,7), (3,6), (-4,6)}

**1. Create a mapping of the relation.**

✓_____

**2. Make a table of the relation.**

✓_____

**3. Create graph of the relation.**

✓_____

**4. Is the relation a function? How do you know?**

✓_____

# Simultaneous Roundtable

Student _____

Period _____ Date _____

## Relation:

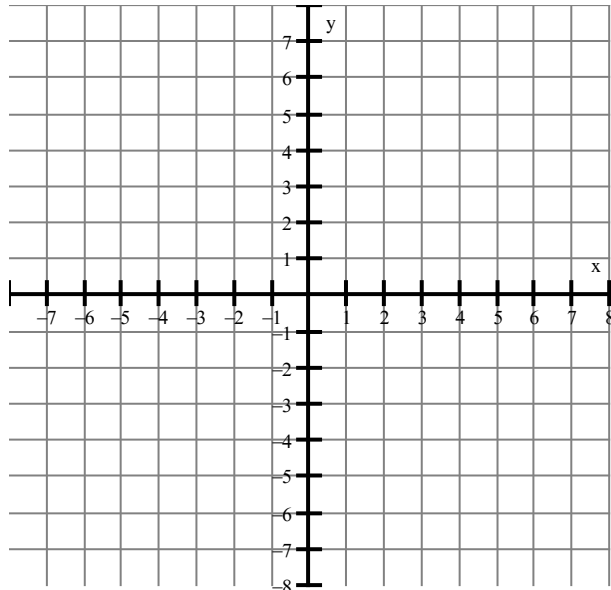$\{(1,-2), (2,-2), (3,-2), (4,-2)\}$

---

**1. Create a mapping of the relation.**

✓_____

**2. Make a table of the relation.**

✓_____

**3. Create graph of the relation.**



✓_____

**4. Is the relation a function? How do you know?**

✓_____