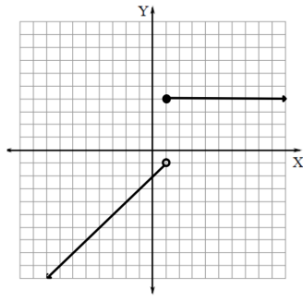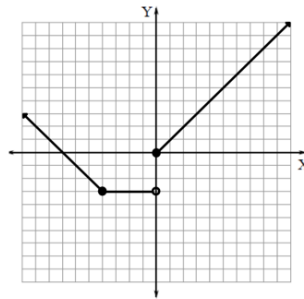Name: _____

Graph the function on each card. Then look for a matching graph on another card.
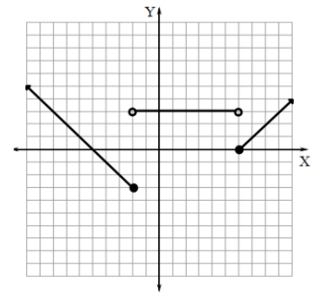
1

$$f(x) = \begin{cases} -6 & \text{if } x \le -2 \\ 2x+1 & \text{if } x > -2 \end{cases}$$
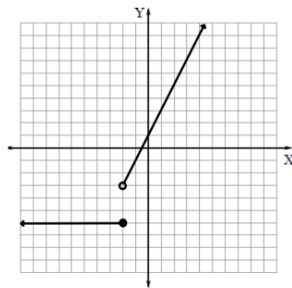
2

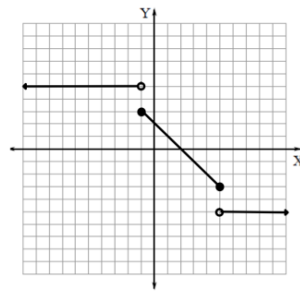$$f(x) = \begin{cases} -x-5 & \text{if } x < -2 \\ -1 & \text{if } -2 \le x \le 2 \\ 3x-5 & \text{if } x > 2 \end{cases}$$

3

$$f(x) = \begin{cases} -x-5 & \text{if } x \le -2 \\ -2x & \text{if } -2 < x < 4 \\ x-6 & \text{if } x \ge 4 \end{cases}$$
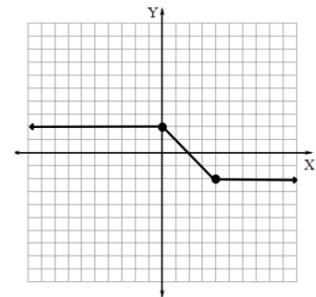
4

$$f(x) = \begin{cases} -\tfrac{1}{2}x+4 & \text{if } x \le 2 \\ -2x+7 & \text{if } x > 2 \end{cases}$$

5

$$f(x) = \begin{cases} 4 & \text{if } x \ge 1 \\ x-2 & \text{if } x < 1 \end{cases}$$
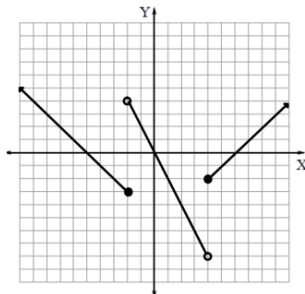
6

$$f(x) = \begin{cases} 5 & \text{if } x \le -1 \\ -x+2 & \text{if } -1 < x < 5 \\ -5 & \text{if } x \ge 5 \end{cases}$$

7
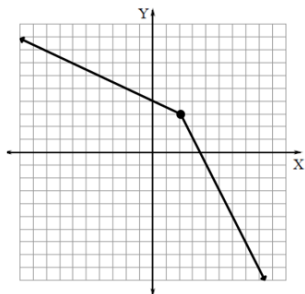
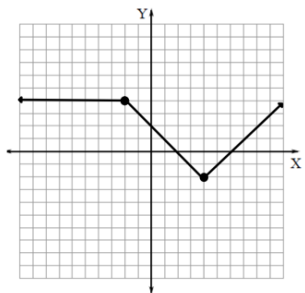$$f(x) = \begin{cases} -x - 7 & \text{if } x \le -4 \\ -3 & \text{if } -4 < x < 0 \\ x & \text{if } x \ge 0 \end{cases}$$
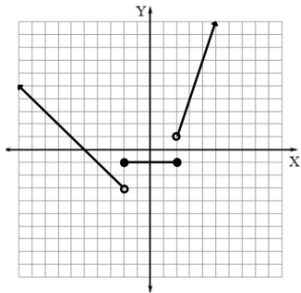
8

$$f(x) = \begin{cases} 4 & \text{if } x \le -2 \\ -x+2 & \text{if } -2 < x < 4 \\ x - 6 & \text{if } x \ge 4 \end{cases}$$

9

$$f(x) = \begin{cases} 2 & \text{if } x \le 0 \\ -x+2 & \text{if } 0 < x < 4 \\ -2 & \text{if } x \ge 4 \end{cases}$$

10

$$f(x) = \begin{cases} -x - 5 & \text{if } x \le -2 \\ 3 & \text{if } -2 < x < 6 \\ x-6 & \text{if } x \ge 6 \end{cases}$$

Student Response Sheet – Version A1

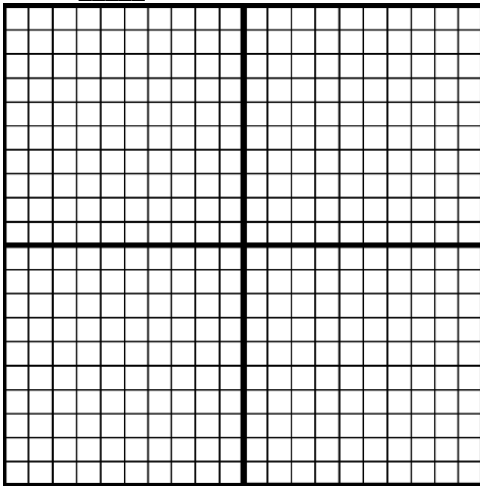Student Answer Sheet

Name _____

Period _____

Pick a card to start with. Write the number in the 1st box. Graph the piecewise-defined function, then locate the card with the correct graph. Write the number in the 2nd box, and then continue until you reach your first card again.

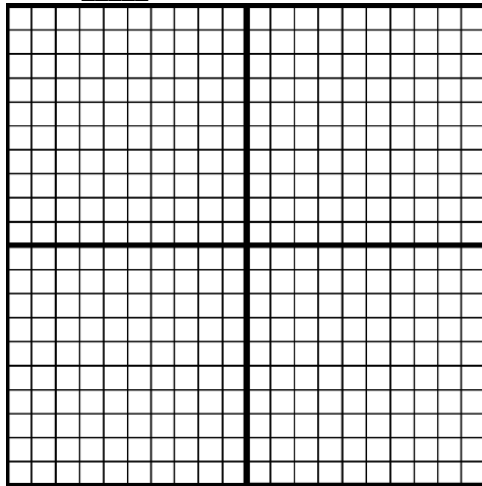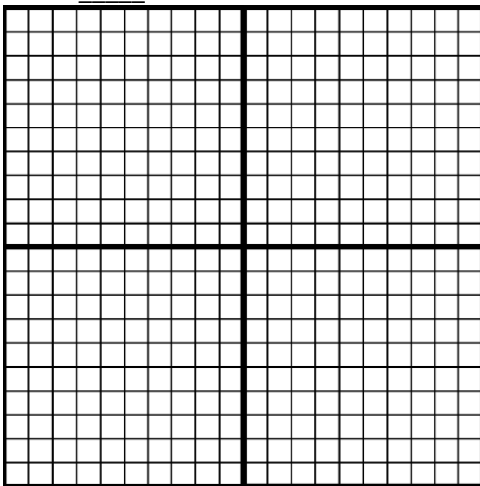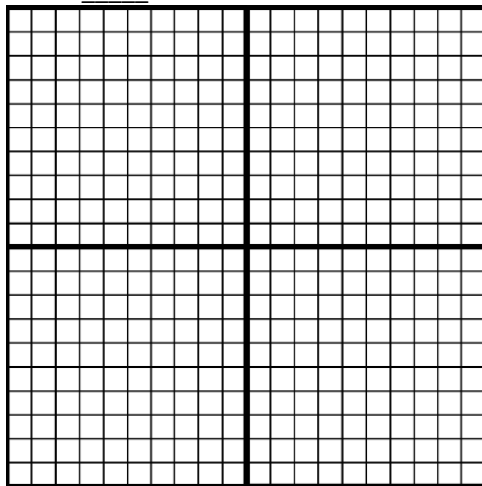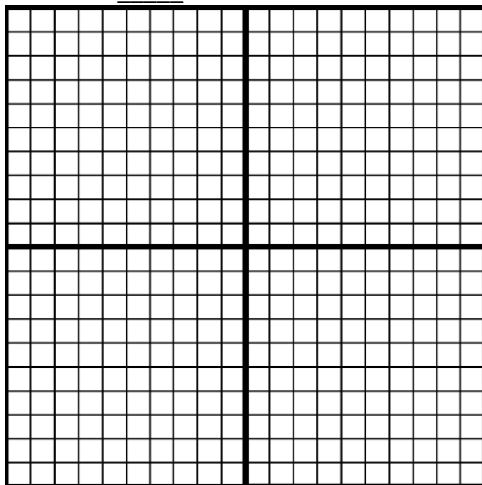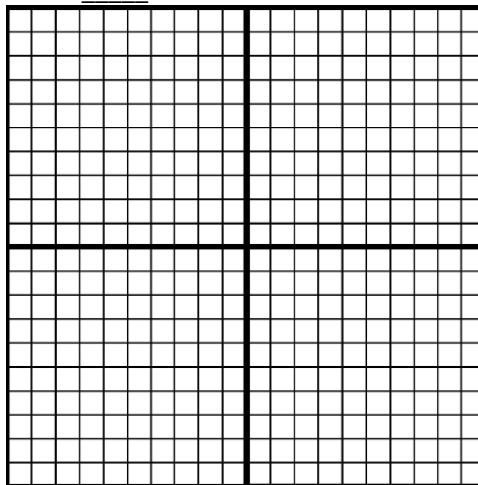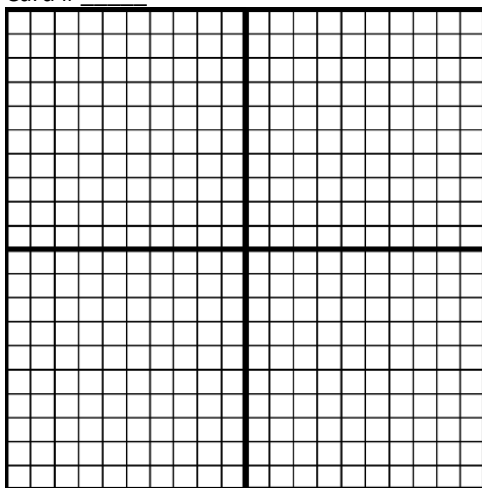|									

Show work below
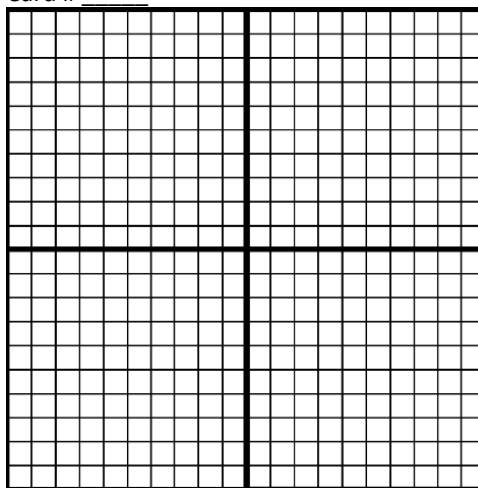
Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

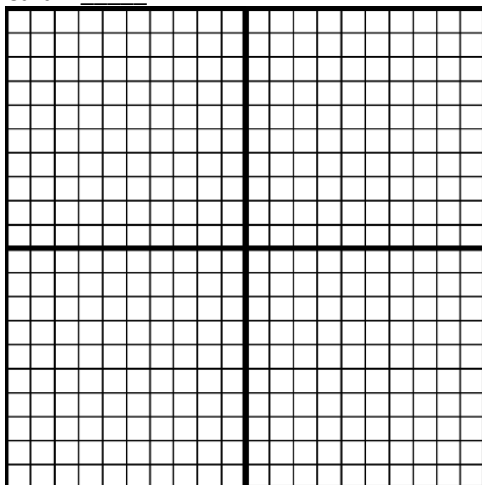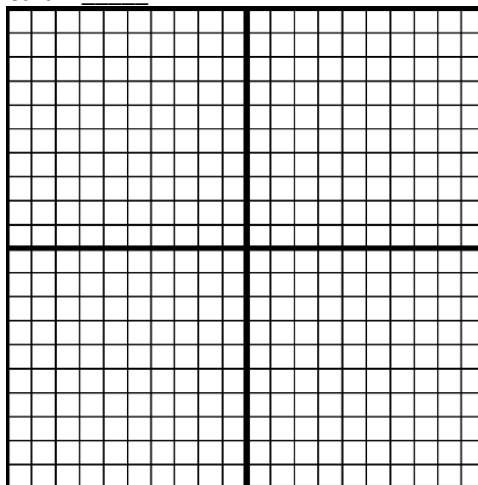Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____

Card # _____

Matches Card # _____