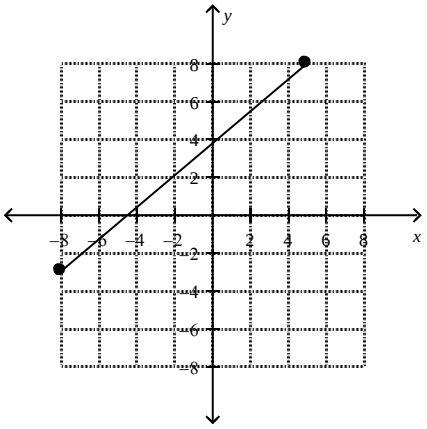
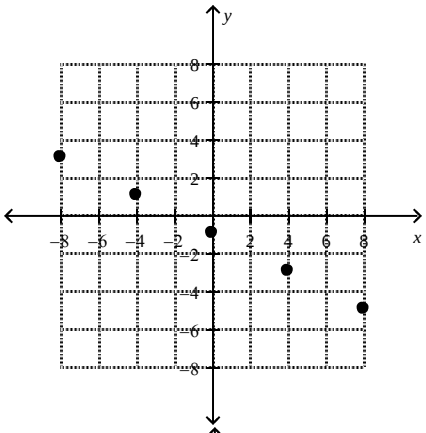
Alg Mini MA912A24 Form A

1 Graph $-2x + 4y = 4$ for the domain D: {–8, –4, 0, 4, 8}.

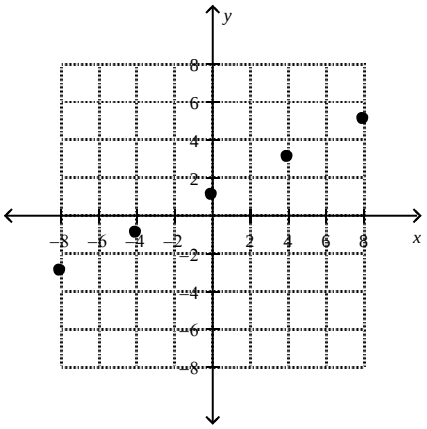
A.



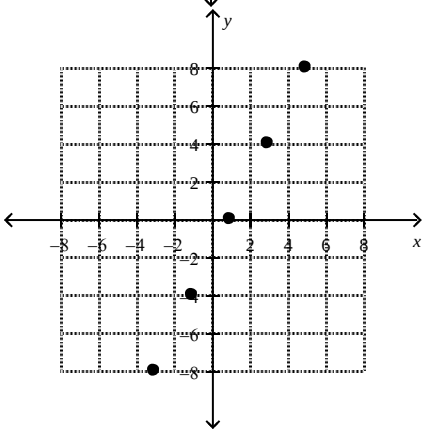
B.



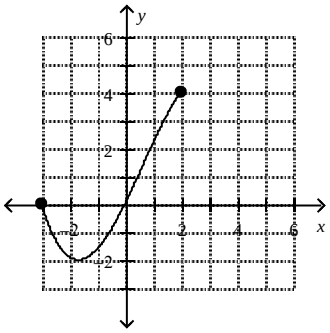
C.



D.



2 Give the domain and range of the relation.



F. D: $-2 \le x \le 4$; R: $-3 \le y \le 2$ **G.** D: $-3 \le x \le 2$; R: $-2 \le y \le 4$ **H.** D: $-3 \le x \le 2$ R: $-3 \le y \le 6$ **I.** D: $-3 \le x \le 2$; R: $0 \le y \le 4$

3 Given $f(x) = x^2 + 1$ with domain D: $\{-2, -1, 0, 1, 3\}$. What is the range, R?
A. R: $\{-1, -2, 0, 1, 3\}$ **B.** R: $\{4, 1, 0, 1, 9\}$ **C.** R: $\{5, 2, 1, 2, 10\}$ **D.** R: $\{3, 0, -1, 0, 8\}$

4 Give the domain and range of the relation.

x	*y*
3	7
6	13
0	0
–7	–13

F. D: {3, 6, –7, 7, 13, –13}; R: {0} **G.** D: {–7, 0, 3, 6}; R: {–13, 0, 7, 13} **H.** D: {–7, 3, 6}; R: {–13, 7, 13} **I.** D: {–13, 0, 7, 13}; R: {–7, 0, 3, 6}

5 A family is on vacation in Key West and decides to rent bicycles to tour the island. The rental fee for a bike and helmet is $27.00 per person for each hour. There are four people in the family renting bicycles. Which input/output (I/O) model correctly displays the domain and range of the situation where *c*, the total cost for the bicycle rental is a function of *h*, the number of hours the bikes are rented?

I/O Model 1

input	1	2	3	4	5
output	$27	$54	$81	$108	$135

I/O Model 2

input	1	2	3	4	5
output	$108	$216	$324	$432	$540

I/O Model 3

input	$27	$54	$81	$108	$135
output	1	2	3	4	5

I/O Model 4

input	$108	$216	$324	$432	$540
output	1	2	3	4	5

A. I/O Model 1 **B.** I/O Model 2 **C.** I/O Model 3 **D.** I/O Model 4

Alg Mini MA912A24 Form A
Answer Section

1	ANS: C	PTS:	1	STA:	MA.912.A.2.4
2	ANS: G	PTS:	1	STA:	MA.912.A.2.4
3	ANS: C	PTS:	1	STA:	MA.912.A.2.4
4	ANS: G	PTS:	1	STA:	MA.912.A.2.4
5	ANS: B	PTS:	1	STA:	MA.912.A.2.4