AA2.3.1 The graph of a function

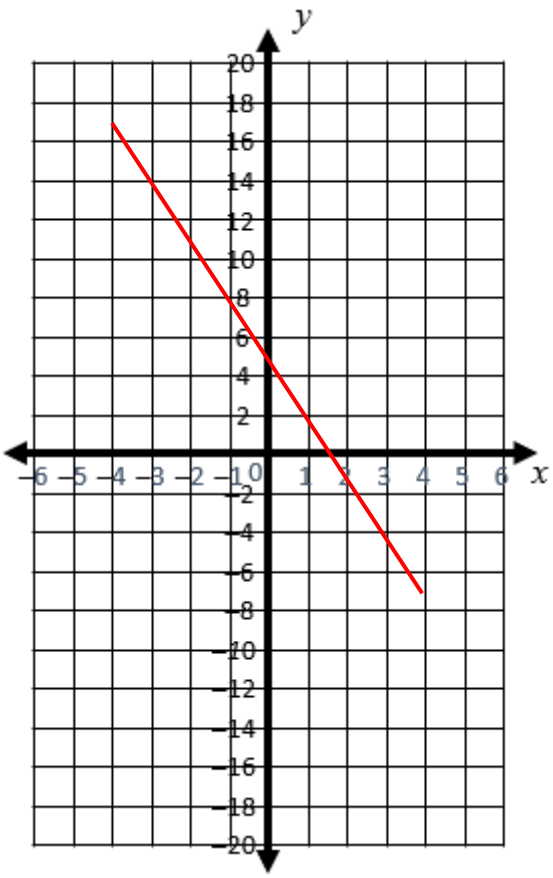
Student name: _____ Score: _____

1. $f(x) = 5 - 3x$, for $-4 \le x \le 4$

(a) Complete the table below with the values of y.

x	-4	-3	-2	-1	0	1	2	3	4
y	17	14	11	8	5	2	-1	-4	-7

(b) Use the grid to draw the graph of the function.

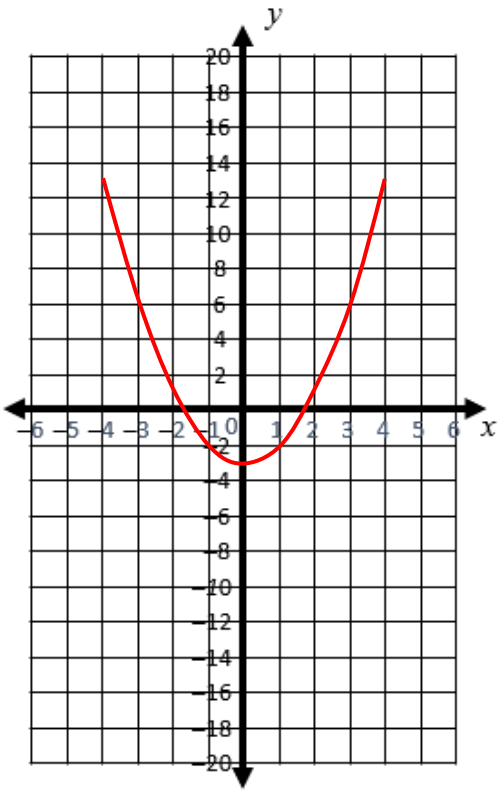


2. $f(x) = x^2 - 3$, for $-4 \le x \le 4$

(a) Complete the table below with the values of y.

x	-4	-3	-2	-1	0	1	2	3	4
y	13	6	1	-2	-3	-2	1	6	13

(b) Use the grid to draw the graph of the function.

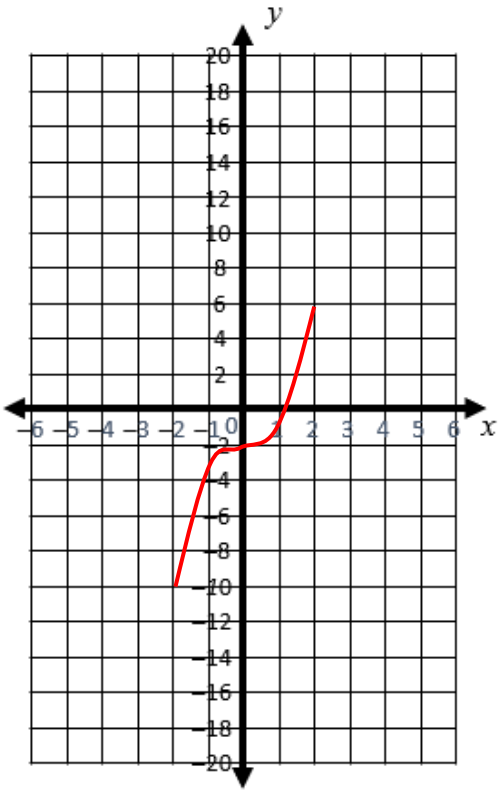


3. $f(x) = x^3 - 2$, for $-2 \leq x \leq 2$

(a) Complete the table below with the values of y.

x	-2	-1	0	1	2
y	-10	-3	-2	-1	6

(b) Use the grid to draw the graph of the function.

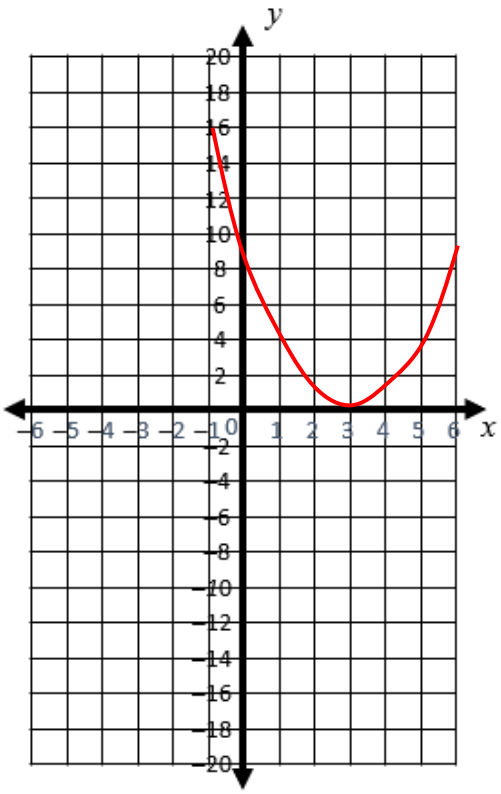


4. $f(x) = (x - 3)^2$, for $-1 \leq x \leq 6$

(a) Complete the table below with the values of y.

x	-1	0	1	2	3	4	5	6
y	16	9	4	1	0	1	4	9

(b) Use the grid to draw the graph of the function.

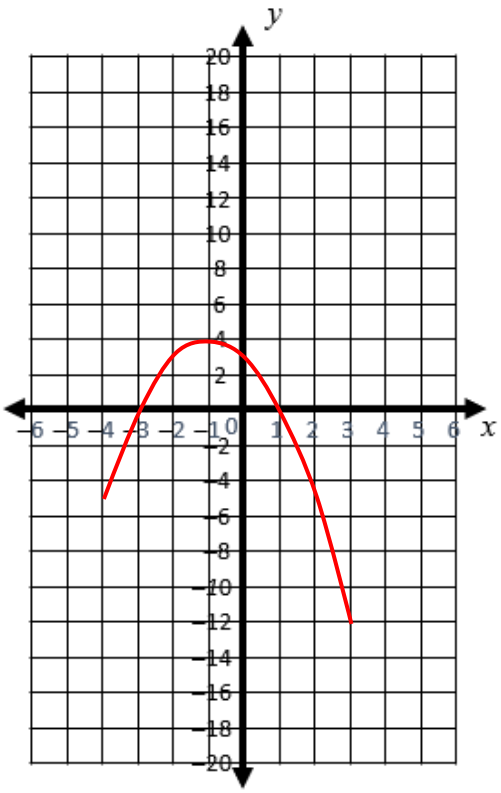


5. $f(x) = -x^2 - 2x + 3$, for $-4 \leq x \leq 3$

(a) Complete the table below with the values of y.

x	-4	-3	-2	-1	0	1	2	3
y	-5	0	3	4	3	0	-5	-12

(b) Use the grid to draw the graph of the function.

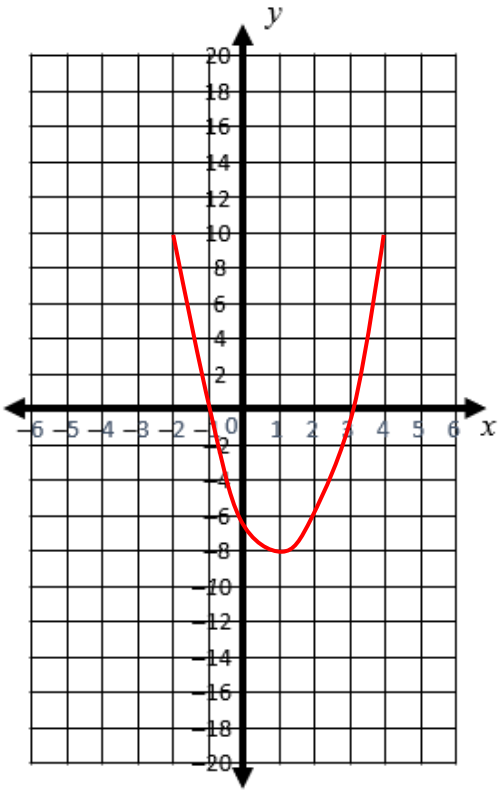


6. $f(x) = 2x^2 - 4x - 6$, for $-2 \leq x \leq 4$

(c) Complete the table below with the values of y.

x	-2	-1	0	1	2	3	4
y	10	0	-6	-8	-6	0	10

(d) Use the grid to draw the graph of the function.



7. $f(x) = 4x - x^3$, for $-3 \leq x \leq 3$

(a) Complete the table below with the values of y.

x	-3	-2	-1	0	1	2	3
y	15	0	-3	0	3	0	-15

(b) Use the grid to draw the graph of the function.