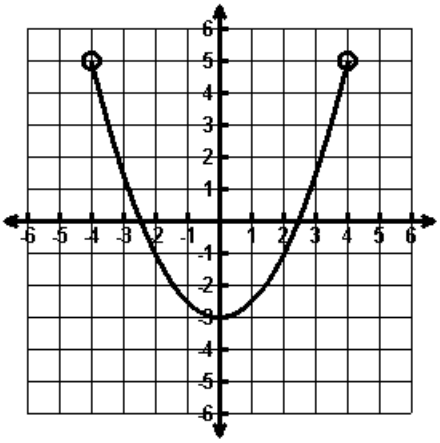
Name_____ Date _____

Identifying Domain and Range

Evaluate – Answer Key

1 What is the domain of the function shown on the graph below?



A $-3 \leq x \leq 5$

B $-3 < x < 5$

C $-4 \leq x \leq 4$

D $-4 < x < 4$

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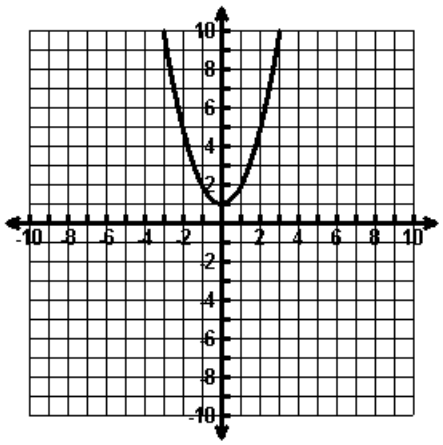
2 The graph of the function $y = x^2 + 1$ is shown below.



What is the range of this function?

A $y > 1$

B $y \geq 1$

C $x < 0$

D $x \leq 0$

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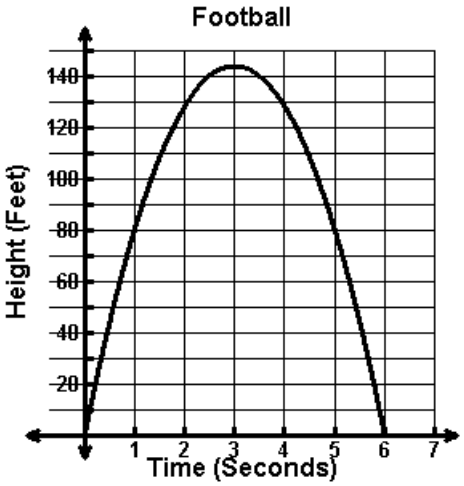
3 The graph shows the relationship between the height of a football and the amount of time since it was kicked.



What is the domain of the function for this situation?

A $0 \leq x \leq 6$

B $0 < x < 6$

C $0 \leq y \leq 144$

D $0 < y < 144$

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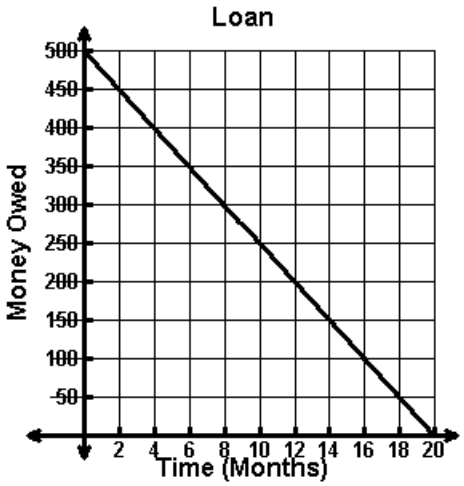
4 The graph shows the relationship between the amount of money owed on a loan and the number of months paid on the loan.



What is the range of the function for this situation?

A $0 < x < 20$

B $0 \leq x \leq 20$

C $0 < y < 500$

D $0 \leq y \leq 500$

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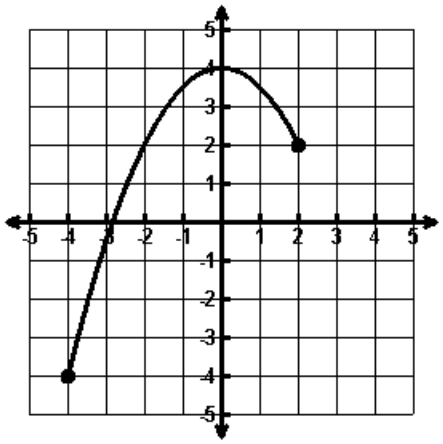
5 What is the domain of the function shown on the graph below?



A $-4 \leq x \leq 2$

B $-4 \leq x \leq 4$

C $-4 \leq y \leq 4$

D $-4 \leq y \leq 2$

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6 The total cost that a farmer has to pay for space at a local farmers' market can be found using the function $c = 40t + 50$, where t is the number of tables that the farmer rents for the day. If a farmer rents at least 3 tables but not more than 7 tables, what is the domain of the function for this situation?

A $3 \leq t \leq 7$

B $170 \leq t \leq 330$

C {3, 4, 5, 6, 7}

D {170, 210, 250, 290, 330}

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7 The table shows some ordered pairs that belong to quadratic function k.

x	−3	−2	−1	0	1	2	3
$k(x)$	−5	0	3	4	3	0	−5

What is the range of k?

A All real numbers greater than or equal to −5

B All real numbers less than or equal to 4

C All real numbers less than or equal to 0

D All real numbers