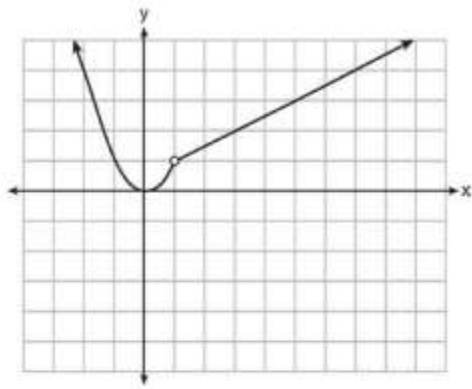


<p>If $f(x) = x^3 - 3$, then $f(-1)$ is equivalent to</p> <ol style="list-style-type: none"> 1) 0 2) 2 3) -2 4) 4 	<p>If $f(x) = kx^2$, and $f(2) = 12$, then k equals</p> <ol style="list-style-type: none"> 1) 1 2) 2 3) 3 4) 4 																																								
<p>If $f(x) = \frac{x-4}{x+4}$, then $f(4a)$ equals</p> <ol style="list-style-type: none"> 1) $\frac{a-1}{a+1}$ 2) $\frac{a+1}{a-1}$ 3) $\frac{4a-1}{4a+1}$ 4) $\frac{4a+1}{4a-1}$ 	<p>Given: the function f defined by $f(x) = 3x^2 - 4$. Which statement is true?</p> <ol style="list-style-type: none"> 1) $f(0) = 0$ 2) $f(-2) = f(2)$ 3) $f(5) + f(2) = f(7)$ 4) $f(5) - f(2) = f(10)$ 																																								
<p>Which relation is <i>not</i> a function?</p> <ol style="list-style-type: none"> 1) $\{(1,5), (2,6), (3,6), (4,7)\}$ 2) $\{(4,7), (2,1), (-3,6), (3,4)\}$ 3) $\{(-1,6), (1,3), (2,5), (1,7)\}$ 4) $\{(-1,2), (0,5), (5,0), (2,-1)\}$ 	<p>Which table represents a function?</p> <ol style="list-style-type: none"> 1) <table border="1" data-bbox="894 1010 1243 1098"> <tr><td>x</td><td>2</td><td>4</td><td>2</td><td>4</td></tr> <tr><td>f(x)</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> </table> 2) <table border="1" data-bbox="894 1108 1243 1197"> <tr><td>x</td><td>0</td><td>-1</td><td>0</td><td>1</td></tr> <tr><td>f(x)</td><td>0</td><td>1</td><td>-1</td><td>0</td></tr> </table> 3) <table border="1" data-bbox="894 1207 1243 1295"> <tr><td>x</td><td>3</td><td>5</td><td>7</td><td>9</td></tr> <tr><td>f(x)</td><td>2</td><td>4</td><td>2</td><td>4</td></tr> </table> 4) <table border="1" data-bbox="894 1306 1243 1394"> <tr><td>x</td><td>0</td><td>1</td><td>-1</td><td>0</td></tr> <tr><td>f(x)</td><td>0</td><td>-1</td><td>0</td><td>1</td></tr> </table> 	x	2	4	2	4	f(x)	3	5	7	9	x	0	-1	0	1	f(x)	0	1	-1	0	x	3	5	7	9	f(x)	2	4	2	4	x	0	1	-1	0	f(x)	0	-1	0	1
x	2	4	2	4																																					
f(x)	3	5	7	9																																					
x	0	-1	0	1																																					
f(x)	0	1	-1	0																																					
x	3	5	7	9																																					
f(x)	2	4	2	4																																					
x	0	1	-1	0																																					
f(x)	0	-1	0	1																																					
<p>Which domain would be the most appropriate set to use for a function that predicts the number of household online-devices in terms of the number of people in the household?</p> <ol style="list-style-type: none"> 1) integers 2) whole numbers 3) irrational numbers 4) rational numbers 	<p>If $f(x) = 3^x$ and $g(x) = 2x + 5$, at which value of x is $f(x) < g(x)$?</p> <ol style="list-style-type: none"> 1) -1 2) 2 3) -3 4) 4 																																								

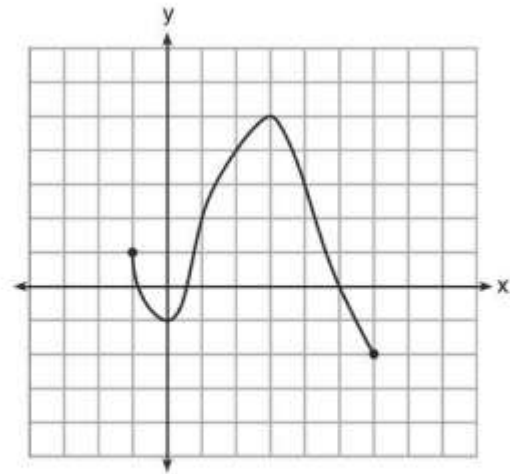
A function is graphed on the set of axes below.



Which function is related to the graph?

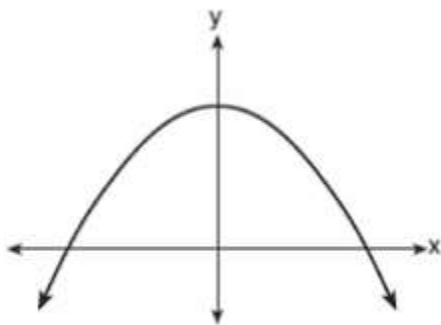
- 1) $f(x) = \begin{cases} x^2, x < 1 \\ x - 2, x > 1 \end{cases}$
- 2) $f(x) = \begin{cases} x^2, x < 1 \\ \frac{1}{2}x + \frac{1}{2}, x > 1 \end{cases}$
- 3) $f(x) = \begin{cases} x^2, x < 1 \\ 2x - 7, x > 1 \end{cases}$
- 4) $f(x) = \begin{cases} x^2, x < 1 \\ \frac{3}{2}x - \frac{9}{2}, x > 1 \end{cases}$

What is the domain of the function shown below?



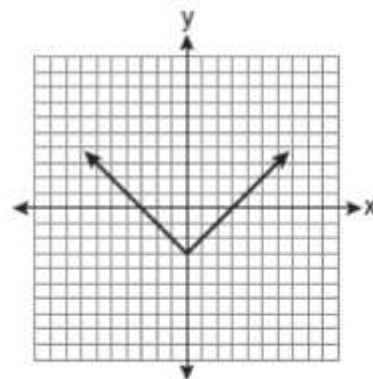
- 1) $-1 \leq x \leq 6$
- 2) $-1 \leq y \leq 6$
- 3) $-2 \leq x \leq 5$
- 4) $-2 \leq y \leq 5$

Which equation is best represented by the accompanying graph?



- 1) $y = 6^x$
- 2) $y = 6x^2$
- 3) $y = 6x + 1$
- 4) $y = -x^2 + 1$

Which equation is represented by the graph below?



- 1) $y = x^2 - 3$
- 2) $y = (x - 3)^2$
- 3) $y = |x| - 3$
- 4) $y = |x - 3|$