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| --- | --- |
| 1. Indicate whether the table defines a function. Justify your answer with an explanation.

1. Function
2. Not a Function

Because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Indicate whether the table defines a function. Justify your answer with an explanation.

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Because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Indicate whether the equation defines a function with independent variable *x.*

 9*x* – 2*y =* –41. Function
2. Not a Function
 | 1. Indicate whether the equation defines a function with independent variable *x*.

 5*x*2 + *y =* –31. Function
2. Not a Function
 |

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| --- |
| 1. Find the value of *f*(–1) if *f*(*x*) = –3*x*2 + 4*x*.
2. -8 C) -6
3. -7 D) -5
 |
| 1. Find *f*(*a* – 2) if *f*(*x*) = –*x* + 1
2. –*a* + 3 C) *a* – 2
3. –*a* – 1 D) *a* + 3
 |
| 1. Use the graph of the function to estimate

 (a) *f*(2) (b) *f*(–2) (c) All *x* such that *f*(*x*) = 4 1. (a) –2 (b) –6 (c) 8 C) (a) 6 (b) 2 (c) 8
2. (a) –2 (b) –6 (c) 0 D) (a) 6 (b) 2 (c) 0
 |
| 1. Find the domain of the function. Express your answer in interval notation

1. C)
2. D)
 |
| 1. Find and simplify  for the function *f*(*x*) = *x*3 + 4*x*
2. 3*x*2 + 3*xh* + 4 C) 3*x*2 + 3*x* + *h*2 + 4
3. 3*x*2 + 3*xh* + *h*2 + 4 D) 3*x*2 + 3*x* + 4
 |
| 1. Find and simplify  for the function *f*(*x*) = *x*3 + 4*x*
2. *x*2 – *a*2 + 8 C) *x*2 – *ax* + *a*2 + 4
3. *x*2 – *a*2 – 8 D) *x*2 + *ax* + *a*2 + 4
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