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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.      1. Function 2. Not a Function   Because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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| 1. Indicate whether the equation defines a function with independent variable *x.*   9*x* – 2*y =* –4   1. Function 2. Not a Function | 1. Indicate whether the equation defines a function with independent variable *x*.   5*x*2 + *y =* –3   1. 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 |