**2.1 Function Notation**

Evaluate the given function as requested.

|  |  |
| --- | --- |
| ***f(x) = x – 1***  *f(0)=*  *f(1)=*  *f(-1)=*  *f(2)=* | ***g(x) = 2 – x***  *g(0)=*  *g(1)=*  *g(2)=*  *g(3)=* |
| ***(x) = 2x + 3***  *(-2)=*  *(-1)=*  *(0)=*  *(1)=* | ***k(x) = |3 – 2x|***  *k(-2)=*  *k(-1)=*  *k(0)=*  *k(1)=*  *k(2)=* |
| ***h(x) = x2 – x***  *h(-2)=*  *h(-1)=*  *h(0)=*  *h(1)=*  *h(2)=* | ***y(x) = x2 + x – 2***  *y(-2)=*  *y(-1)=*  *y(0)=*  *y(1)=*  *y(2)=* |

The domains *D* and rules for the functions are given. Using the domains, find the range of each function. Then graph the function.

|  |  |
| --- | --- |
| 1. | graph |
| 2. | graph |
| 3. | graph |
| 4. | graph |
| 5. | graph |

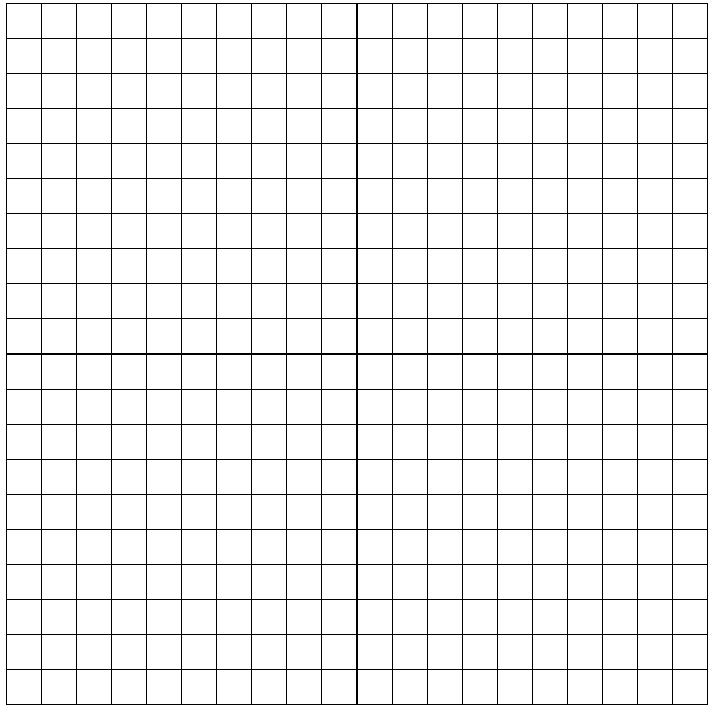
State the domain and range of the function.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6. |  | 7. |  | 8. |  |

Write the formula (in function notation) for the function pictured in each mapping diagram.

|  |  |  |  |
| --- | --- | --- | --- |
| 9. |  | 10. |  |
| 11. |  | 12. |  |

Draw a continuous function *f* such that *f*(1) = 2 and *f*(-3) = 6



Draw a continuous function *f* such that *f*(2) > *f*(-3)

