**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)

