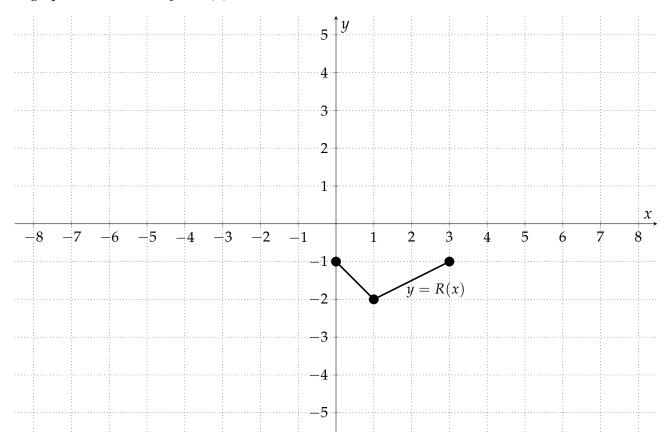
1. A graph of the function y = R(x) is drawn on the axes below.



What is the **domain** and **range** of the function R(x)? Domain: Range:

Draw and label the graphs of the following functions on the provided axes. Then write down their **domain** and **range**.

a)
$$A(x) = -R(x)$$
.
Domain: Range:

b)
$$B(x) = 2R(x-4) + 2$$
.
Domain: Range:

c)
$$C(x) = R(\frac{1}{2}x + 3) - 2$$
.
Domain: Range:

d)
$$D(x) = -R(x+2) + 3$$
.
Domain: Range:

2. Determine whether the following functions are **even**, **odd**, or **neither**.

a)
$$f(x) = 4x^5 + 2x$$
. Even Odd Neither

b)
$$g(x) = 2x^2 + 3$$
. Even Odd Neither

c)
$$h(x) = 4x^3 - 2x^2$$
. Even Odd Neither

3. Describe with complete, English sentences how the graph of the functions below compares to the graph of y = f(x). Be sure to use words like "shifted," "stretched," "compressed," "reflected," "horizontally," and "vertically."

a)
$$y = 3f(x+2) - 1$$

b)
$$y = -f(x) + 5$$