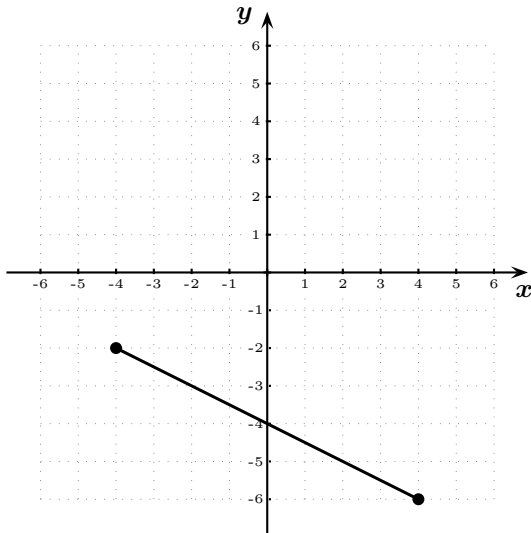


NAME: _____

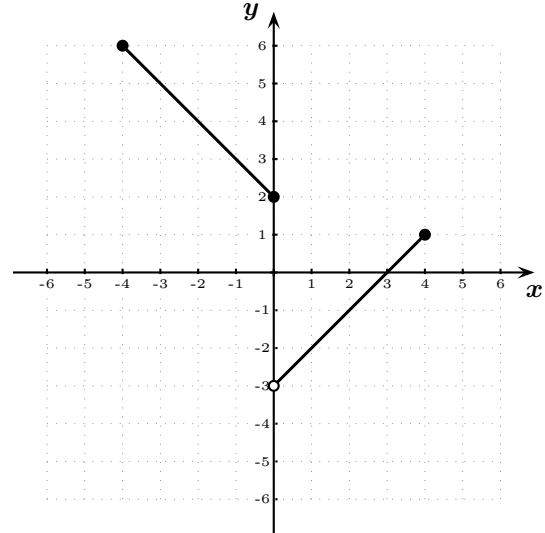
DO NOT write your answers here unless blanks provided. Do it in other sheets and **show all your work**.
STAPLE this sheet to your other sheets.

1. Let f and g be the functions described by the following graphs:

Graph of f



Graph of g



a) Fill in the blanks (using interval notation):

The domain of f is

The range of f is

The domain of g is

The range of g is

An interval on which g is one-to-one is:

b) Evaluate the following, if they exist:

$g(0) = \dots\dots\dots$

$(f + g)(-2) = \dots\dots\dots$

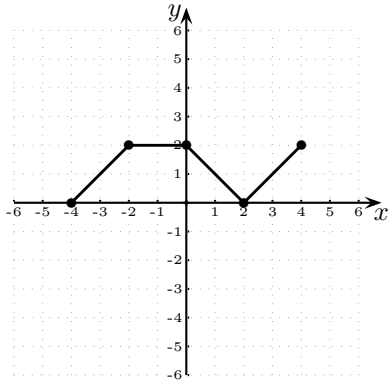
$\left(\frac{g}{f}\right)(-2) = \dots\dots\dots$

$(g \circ f)(-4) = \dots\dots\dots$

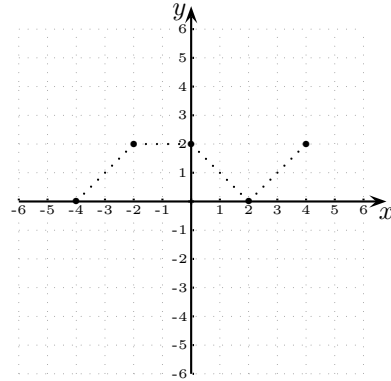
$(f \circ f)(0) = \dots\dots\dots$

5. Use the graph of $y = f(x)$ to graph each function g . You can use the axes provided in this sheet.

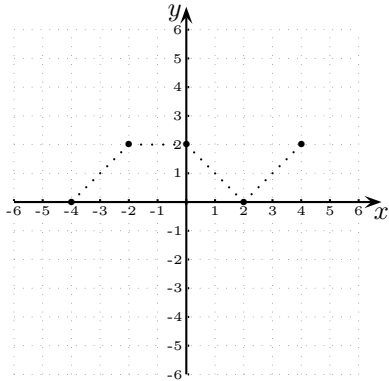
This is the given original graph of f .



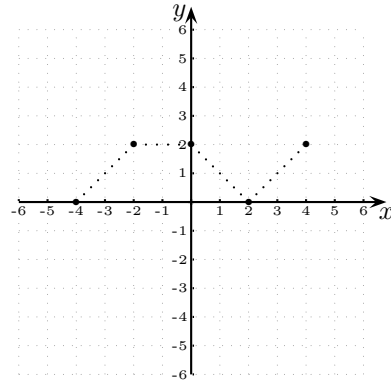
a) Graph $g(x) = f(x) - 1$.



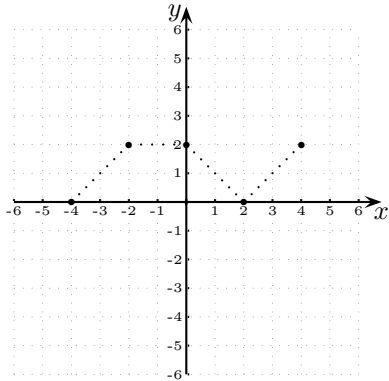
b) Graph $g(x) = f(x - 2)$.



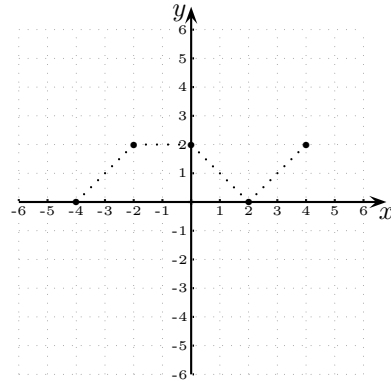
c) Graph $g(x) = f(x - 2) + 3$.



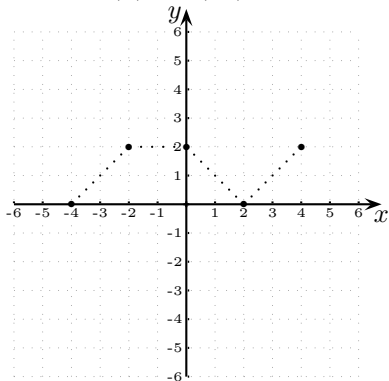
d) Graph $g(x) = f(-x)$.



e) Graph $g(x) = -f(x)$.



f) Graph $g(x) = f(2x)$.



g) Graph $g(x) = 2f(x)$.

