

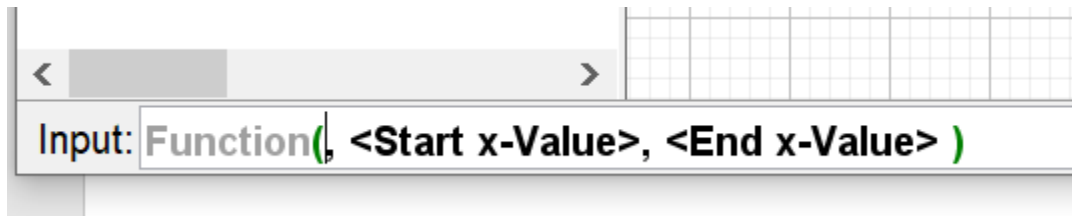
Graph Match Assignment

Open a [geogebra.org/classic](https://www.geogebra.org/classic) page.

Adjust the window to match the window on the graph match exercise. (xmin, xmax, ymin, ymax)

Determine the expression for one of the functions graphed.

Use the function command with start/end value to enter the function with domain.



Use the transformations to draw the other graphs, eg $g(x) = -f(x + 2)$

Calculate and simplify an expression in terms of x for of all functions drawn.

Determine the domain and range of each function drawn.

Prepare a presentation for one of the graph match exercises to present to the class.

Graph Match 1:

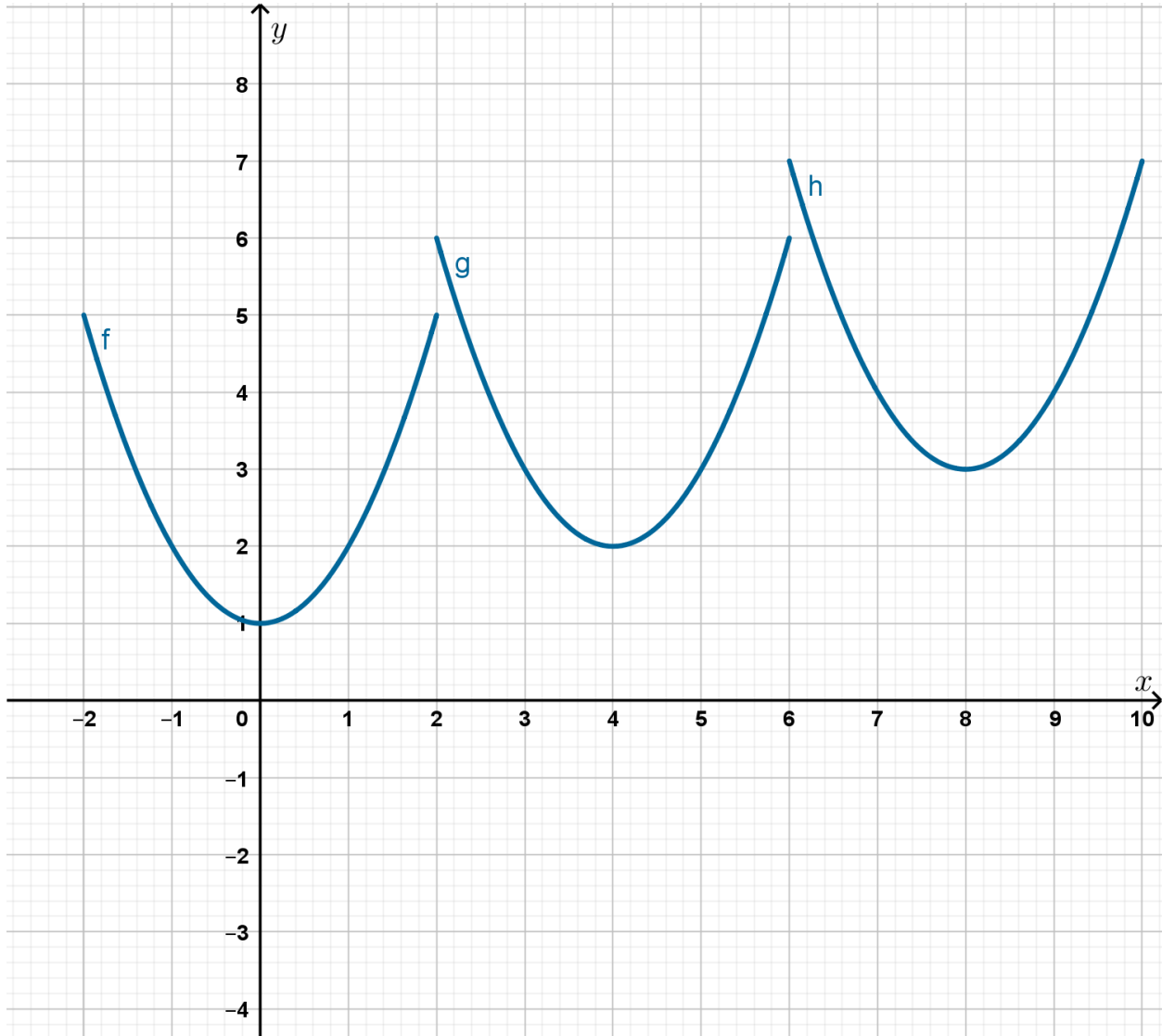
There are three functions shown on this graph.

Identify function f , and state its domain.

Describe the transformation from $y = f(x)$ to $y = g(x)$

Describe the transformation from $y = g(x)$ to $y = h(x)$

Identify the functions g and h , and state their domains.



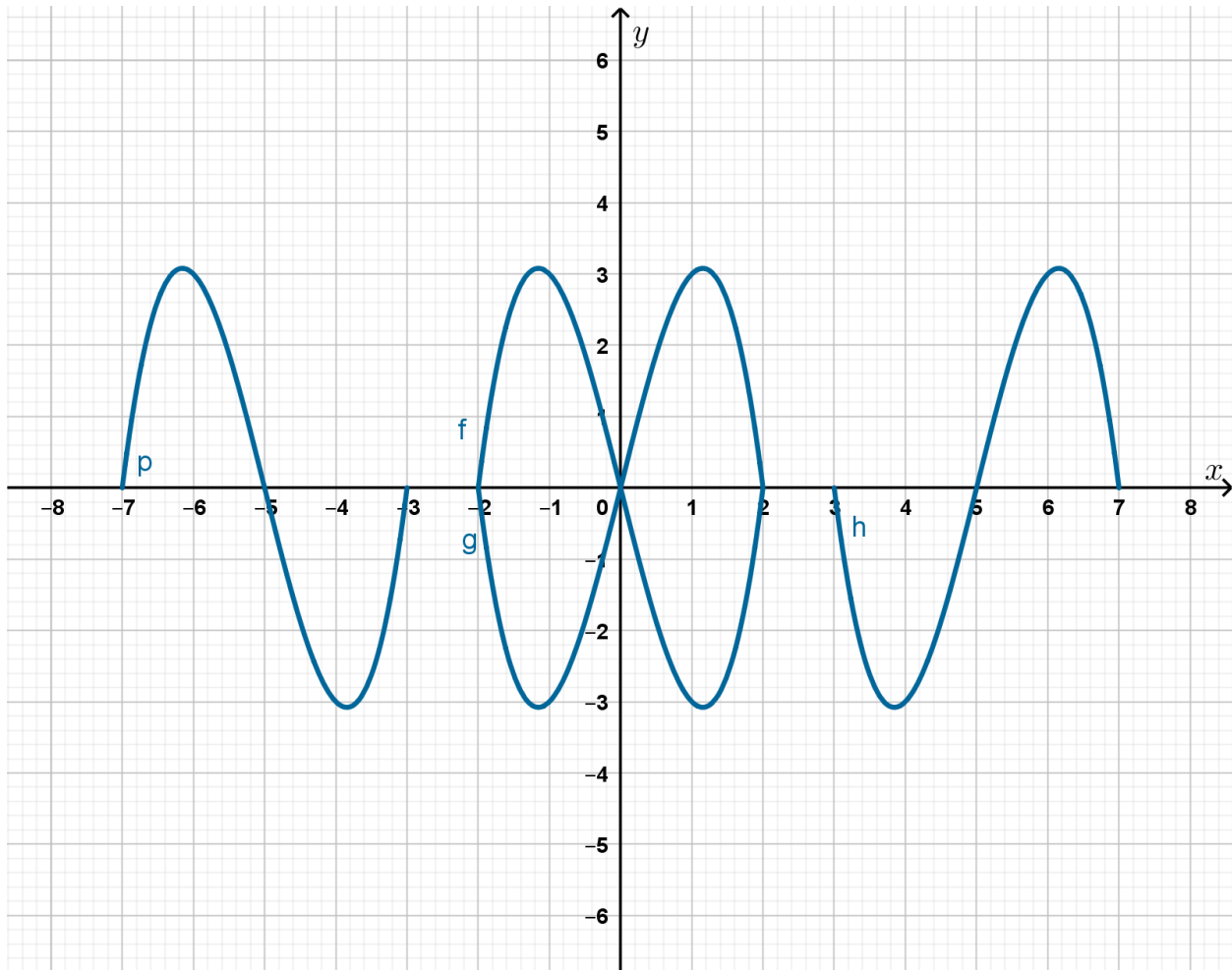
Graph Match 2:

There are four functions graphed below.

Identify function f , and state its domain.

Describe the transformation from $y = f(x)$ to each of the other three functions.

Identify the functions g , h and p . Simplify the algebra and state the domain of each.



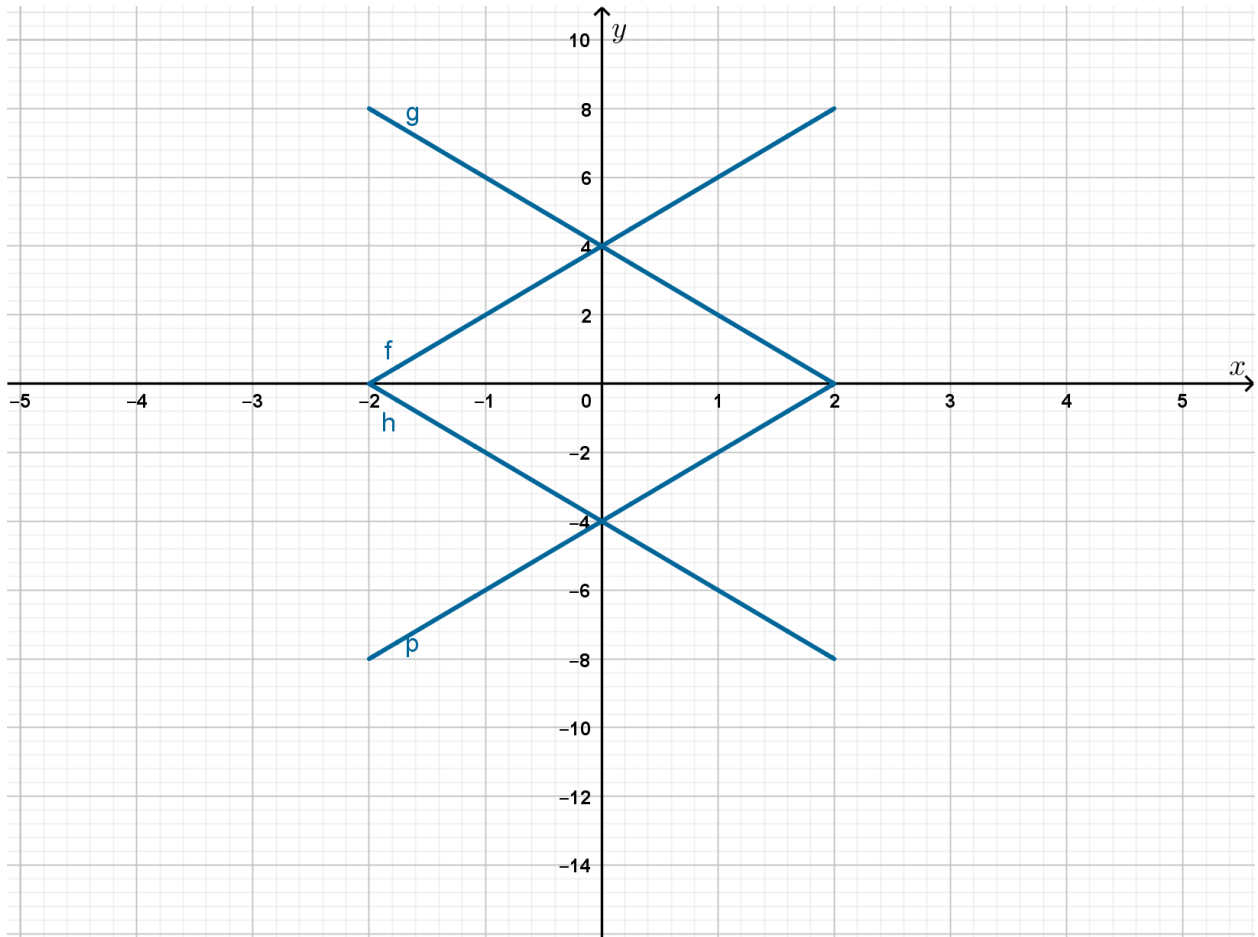
Graph 3 Match:

There are four functions graphed below.

Identify function f , and state its domain.

Describe the transformation from $y = f(x)$ to each of the other three functions.

Identify the functions g, h and p . Simplify the algebra and state the domain of each.

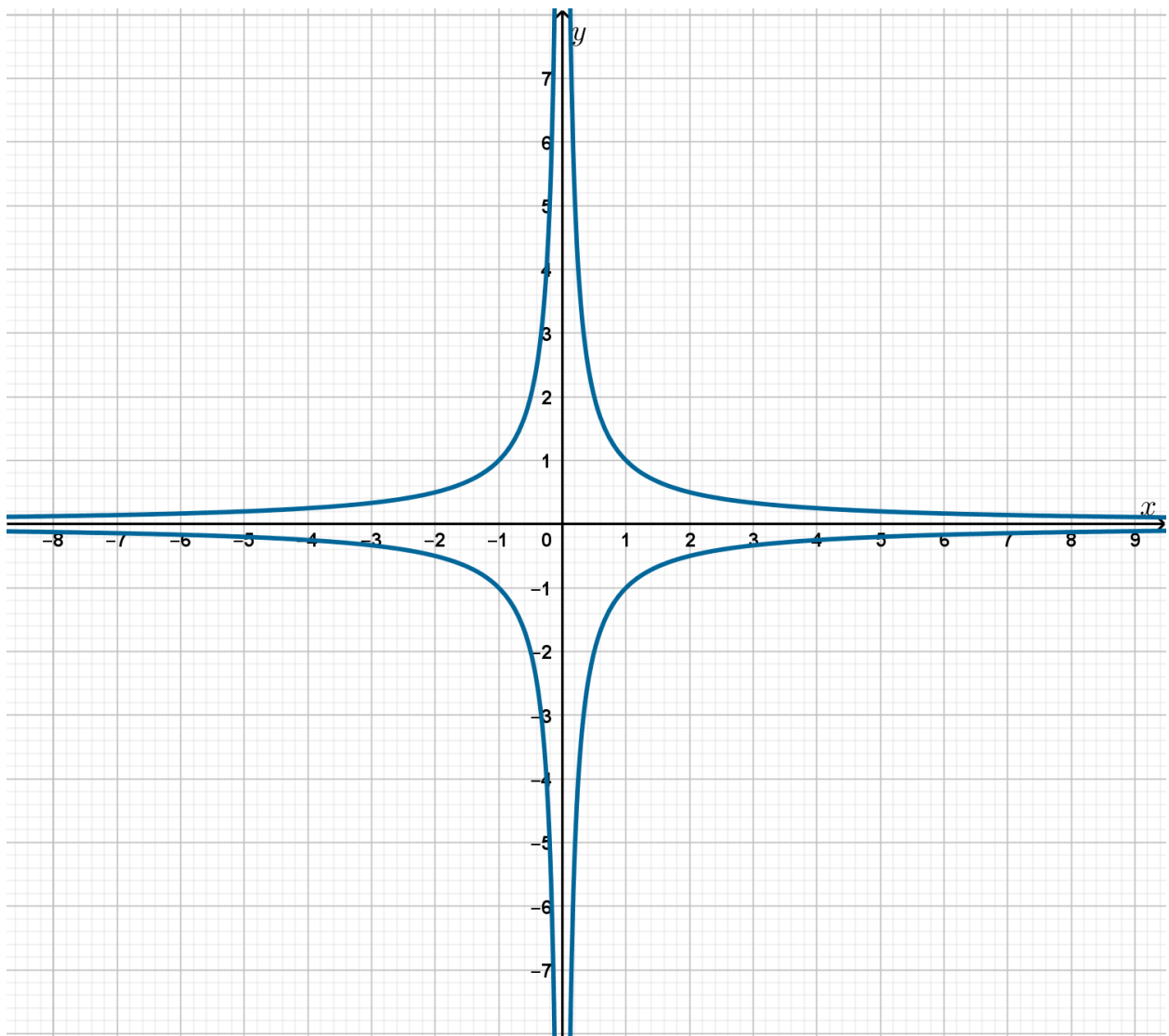


Graph match 4:

There are two functions shown on this graph.

Identify both functions, and state the domain for each.

Describe how one function is a transformation of the other.



Graph match 5:

There are six function on this graph. Identify all six, and state the domain for each.

