4. [6 points] A rational function h(x) has zeros at x = -1, 0, 2, vertical asymptotes at x = 1, 3, and a horizontal asymptote at y = -2. Find a possible formula for h(x). You do not need to show your work, but you may receive credit for correct work shown. There are many correct answers, and you can leave your answer unsimplified.

$$h(x) =$$

5. [5 points] The graph of the function $r(x) = \frac{x-1}{2x}$ is a transformation of the graph of the function $m(x) = \frac{1}{x}$. Fill in the following blanks with the transformations needed to transform the graph of m(x) into the graph of r(x). On each line use one of the phrases given below for the first blank and a number for the second blank, if applicable (for reflections, do not use the second blank). Be sure to list the transformations in the proper order. You may not need to use all four lines below, so just leave any unused lines blank.

Shift it	Shift it	Shift it	Shift it	Reflect it
HORIZONTALLY	HORIZONTALLY	VERTICALLY	VERTICALLY	OVER THE
TO THE RIGHT	TO THE LEFT	UPWARDS	DOWNWARDS	y-AXIS
Compress it	Stretch it	Compress it	Stretch it	Reflect it
HORIZONTALLY	HORIZONTALLY	VERTICALLY	VERTICALLY	OVER THE
				x-AXIS

To get the graph of r(x) starting with the graph of m(x),

first, we	by,
and then we	by,
and then we	by,
and then we	by