## Exercise 38

Graph the functions in Exercises 37-46. What symmetries, if any, do the graphs have? Specify the intervals over which the function is increasing and the intervals where it is decreasing.

$$
y=-\frac{1}{x^{2}}
$$

## Solution

The function is graphed below versus $x$.


It is symmetric with respect to the $y$-axis. The function is decreasing on $(-\infty, 0)$ and increasing on $(0, \infty)$.

