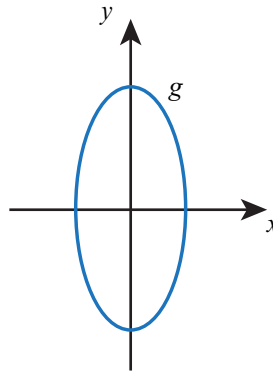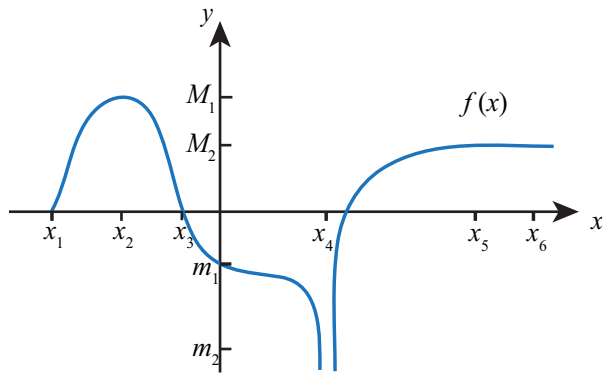# Functions Worksheet

1. Find the interval(s) on which $f(x)$ is strictly increasing.

2. Find the interval(s) on which $f(x)$ is constant.

3. Find the interval(s) on which $f(x)$ is decreasing.

4. Find the upper and lower bounds of $f(x)$ on the interval $(0, x_6)$.

5. Is $f(x)$ odd on the interval (x_1, x_3)?

6. Find the upper bound and lower bound of $f(x)$ for $x < 0$.

7. Is g a function of y or x ? Give reasons for your answer.

8. Determine if the function $h(x) = \frac{x^2+1}{x^3}$ is odd or even.

9. Find the bounds of the function $v(x) = 7 - e^{-x}$.

10. Is y defined as $y^2 + y = x$ a function of x ?