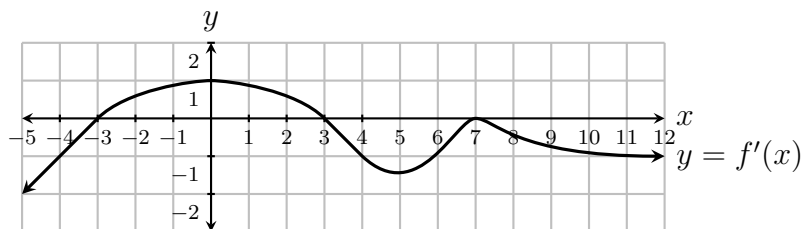1. The graph $y=f'(x)$ of **the derivative** of a function $f(x)$ is shown. Answer the questions about $f(x)$.

(a)   Find the intervals on which $f(x)$ is concave up.

(b)   Find the intervals on which $f(x)$ is concave down.

(c)   State the x values at which any inflection points occur.

2.   Use the second derivative test to find and identify all local extrema of $f(x) = x^3 - 3x$.