

# Fundamental Theorem Practice Problems

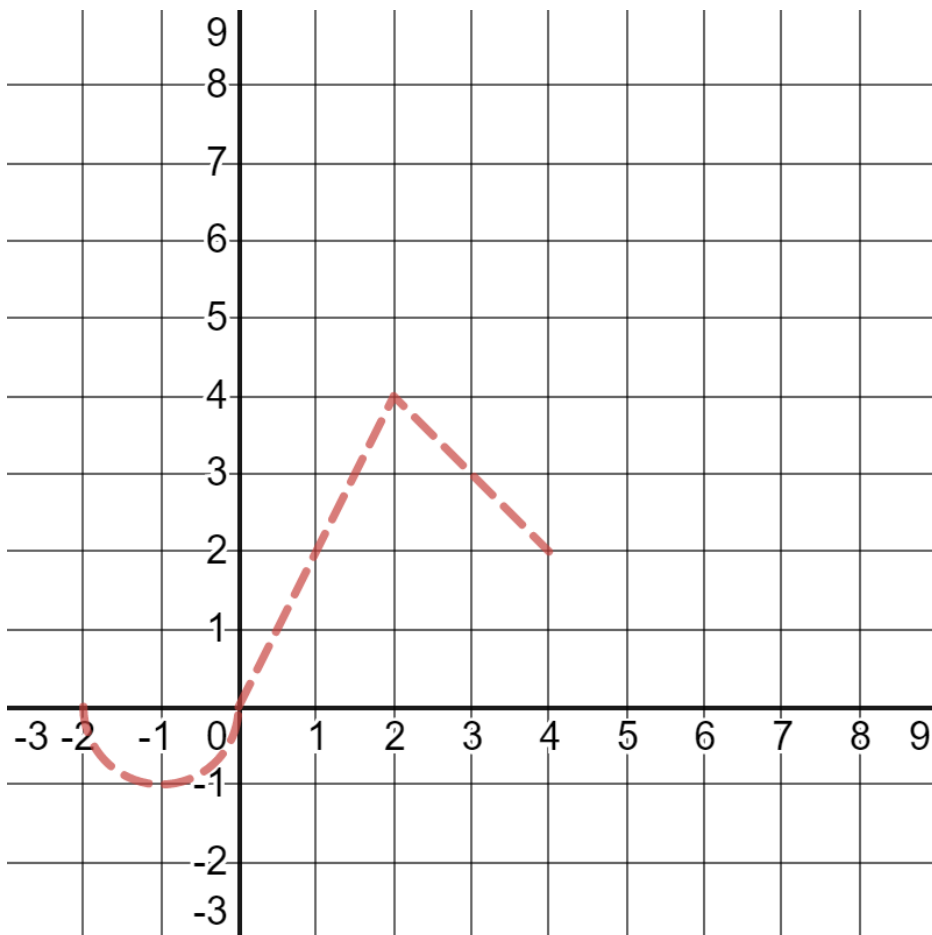
Evaluate the following functions defined using the given the graph  $f$  at the indicated points. Find the  $x$  value where it has an extreme value and an inflection point.

1.

$$F(x) = \int_{-2}^x f(t) dt$$

$x$	-2	0	2		4
$F(x)$					

Maximums of $F$	Minimums of $F$	Inflection Points of $F$

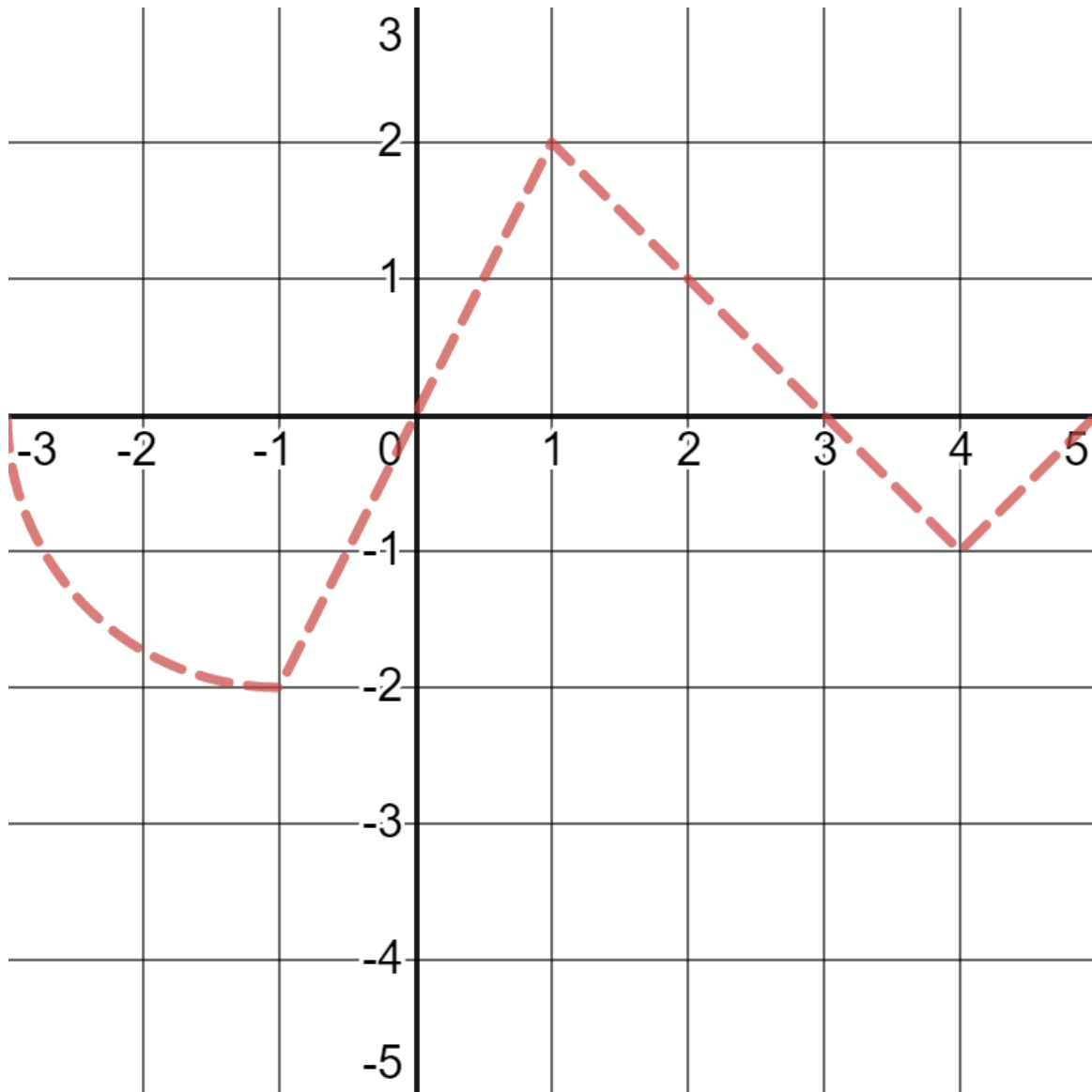


2.

$$g(x) = \int_{-3}^x f(t) dt$$

$x$	-3	-1	1	5
$g(x)$				

Maximums of $g$	Minimums of $g$	Inflection Points of $g$

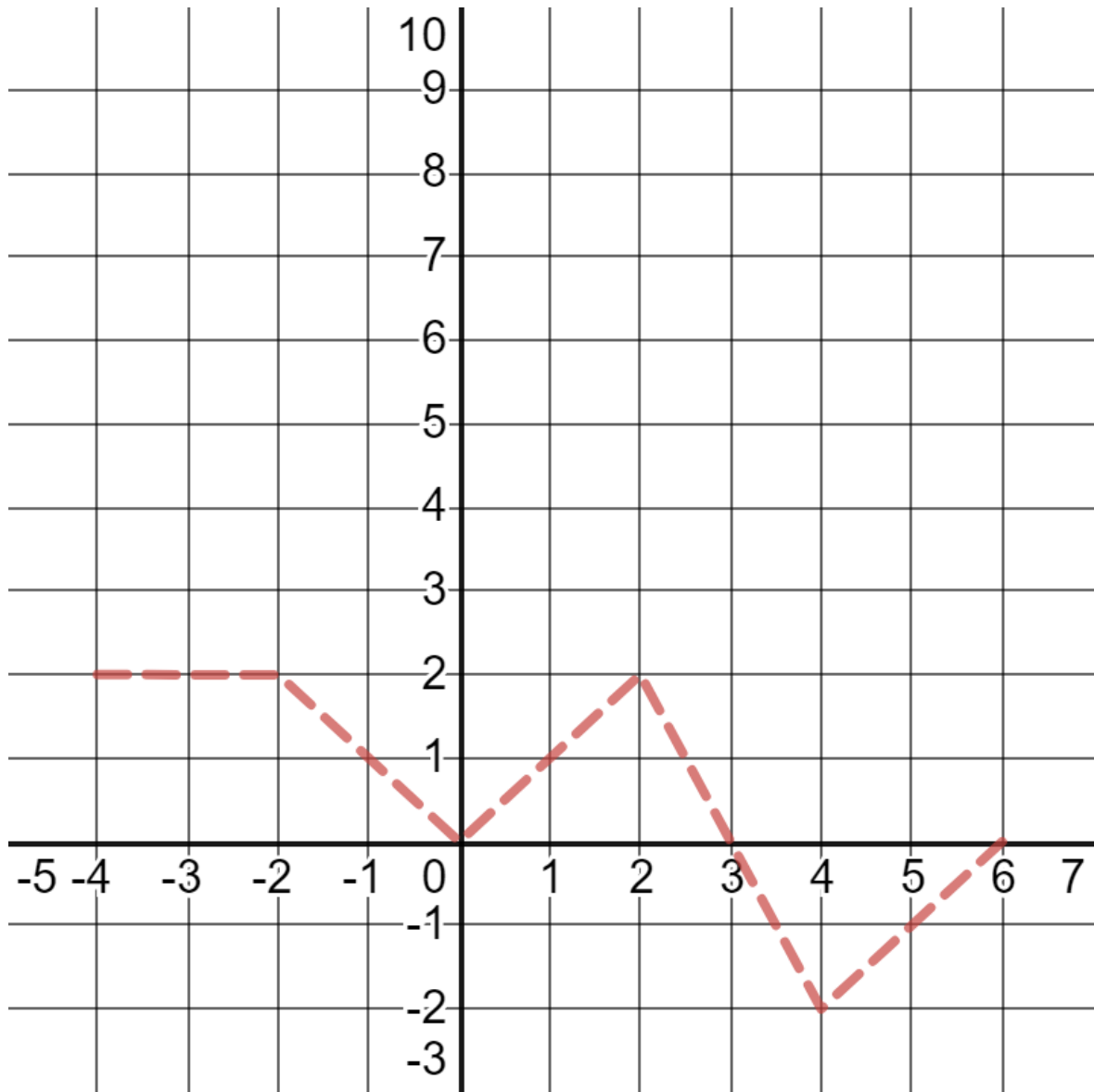


3.

$$h(x) = \int_{-4}^x f(t) dt$$

$x$	-4	-2	0	3	6
$h(x)$					

Maximums of $h$	Minimums of $h$	Inflection Points of $h$



4.

$$k(x) = \int_{-3}^x f(t)dt$$

$x$	-3	1	2	3	5
$k(x)$					

Maximums of $k$	Minimums of $k$	Inflection Points of $k$

