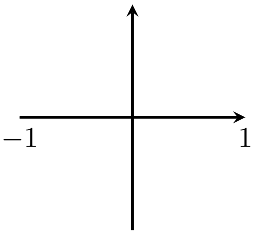
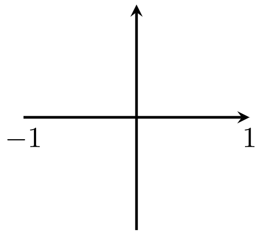
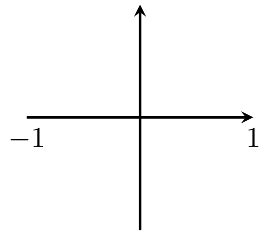
Using properties of f, f', and f'' to sketch f on the interval $[-1, 1]$.



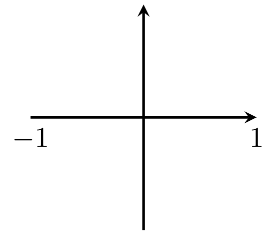
$f(t)$ is positive
$f(t)$ is increasing
$f(t)$ is concave up



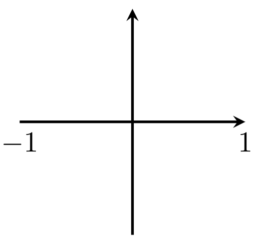
$f(t)$ is positive
$f(t)$ is increasing
$f(t)$ is concave down



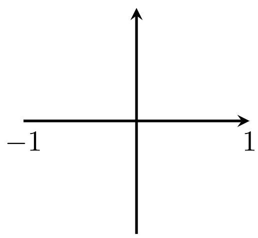
$f(t)$ is negative
$f(t)$ is decreasing
$f(t)$ is concave up



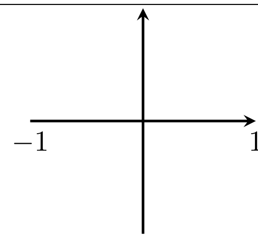
$f(t)$ is positive
$f(t)$ is decreasing
$f(t)$ is concave down



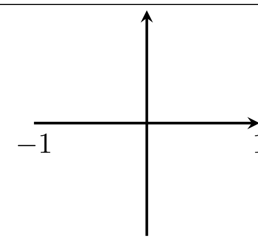
$f(t) > 0$
$f'(t) < 0$
(so $f(t)$ is __________)
$f''(t) > 0$
(so $f(t)$ is __________)



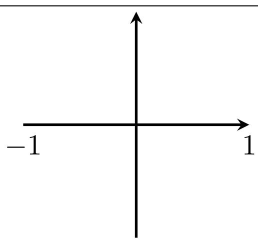
$f(t) < 0$
$f'(t) > 0$
(so $f(t)$ is __________)
$f''(t) < 0$
(so $f(t)$ is ____________)



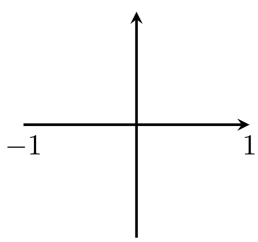
$f(t) < 0$
$f'(t) > 0$
(so $f(t)$ is __________
$f'(t)$ is increasing
(so $f''(t)$___ and $f(t)$ is
__________)



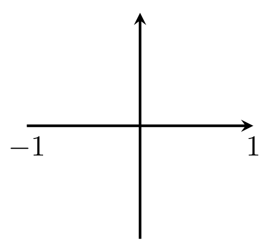
$f(t) < 0$
$f(t)$ is decreasing
(so $f'(t)$___)
$f'(t)$ is decreasing
(so $f''(t)$___ and $f(t)$ is
____________)



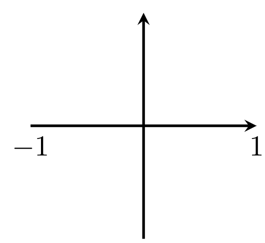
$f(t)$ is negative
$f(t)$ is increasing
(so $f'(t)$___)
$f'(t)$ is decreasing
(so $f''(t)$___ and $f(t)$ is
____________)



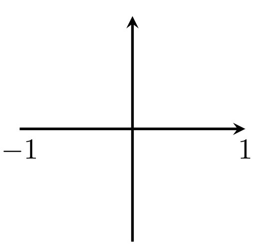
$f(t)$ is positive
$f(t)$ is decreasing
(so $f'(t)$___)
$f'(t)$ is increasing
(so $f(t)$ is __________)



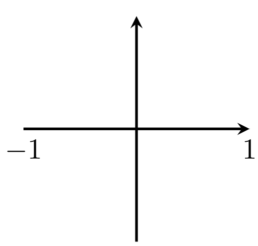
$f(t) > 0$
$f'(t) < 0$
$f''(t) < 0$



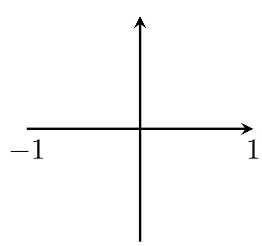
$f(t) < 0$
$f'(t) > 0$
$f''(t) > 0$



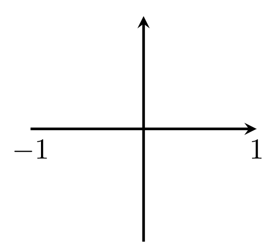
$f(t) < 0$
$f(t)$ is decreasing
$f'(t)$ is decreasing



$f'(t) > 0$
$f(t)$ is positive
$f'(t)$ is increasing



$f'(t) > 0$
$f(t) > 0$
$f''(t) < 0$



$f(t)$ is decreasing
$f'(t)$ is increasing
$f(t)$ is negative