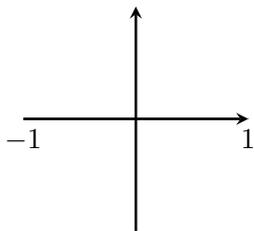
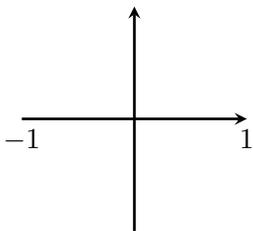


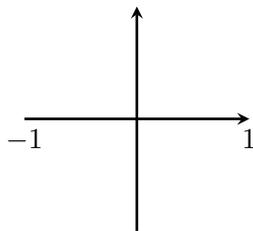
Using properties of f , f' , and f'' to sketch f on the interval $[-1, 1]$.



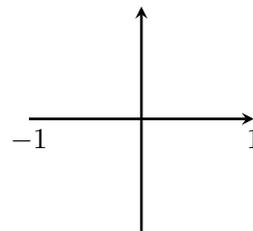
$f(t)$ is positive
 $f(t)$ is increasing
 $f(t)$ is concave up



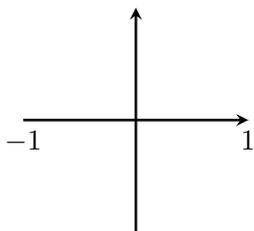
$f(t)$ is positive
 $f(t)$ is increasing
 $f(t)$ is concave down



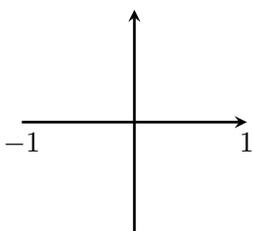
$f(t)$ is negative
 $f(t)$ is decreasing
 $f(t)$ is concave up



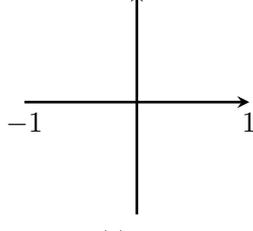
$f(t)$ is positive
 $f(t)$ is decreasing
 $f(t)$ is concave down



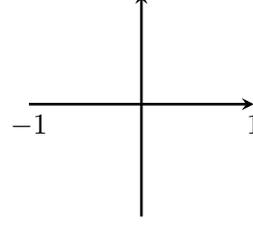
$f(t) > 0$
 $f'(t) < 0$
 (so $f(t)$ is _____)
 $f''(t) > 0$
 (so $f(t)$ is _____)



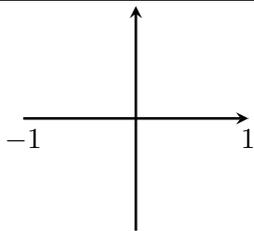
$f(t) < 0$
 $f'(t) > 0$
 (so $f(t)$ is _____)
 $f''(t) < 0$
 (so $f(t)$ is _____)



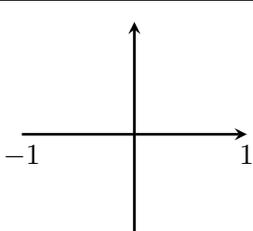
$f(t) < 0$
 $f'(t) > 0$
 (so $f(t)$ is _____)
 $f'(t)$ is increasing
 (so $f''(t)$ _____ and $f(t)$ is _____)



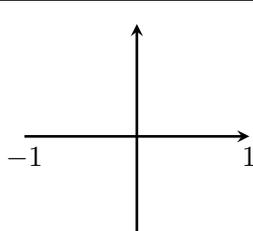
$f(t) < 0$
 $f(t)$ is decreasing
 (so $f'(t)$ _____)
 $f'(t)$ is decreasing
 (so $f''(t)$ _____ and $f(t)$ is _____)



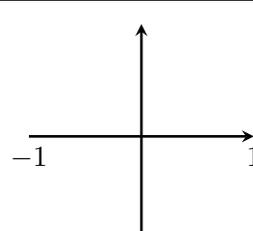
$f(t)$ is negative
 $f(t)$ is increasing
 (so $f'(t)$ _____)
 $f(t)$ is decreasing
 (so $f''(t)$ _____ and $f(t)$ is _____)



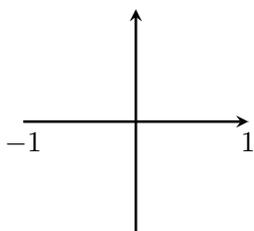
$f(t)$ is positive
 $f(t)$ is decreasing
 (so $f'(t)$ _____)
 $f'(t)$ is increasing
 (so $f(t)$ is _____)



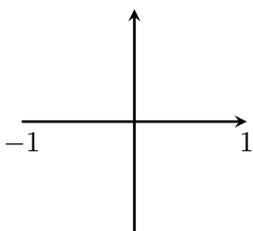
$f(t) > 0$
 $f'(t) < 0$
 $f''(t) < 0$



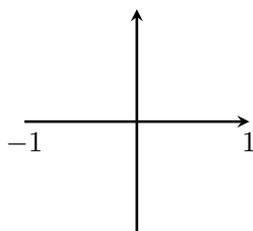
$f(t) < 0$
 $f'(t) > 0$
 $f''(t) > 0$



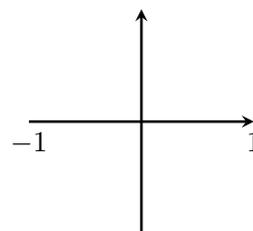
$f(t) < 0$
 $f(t)$ is decreasing
 $f'(t)$ is decreasing



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