

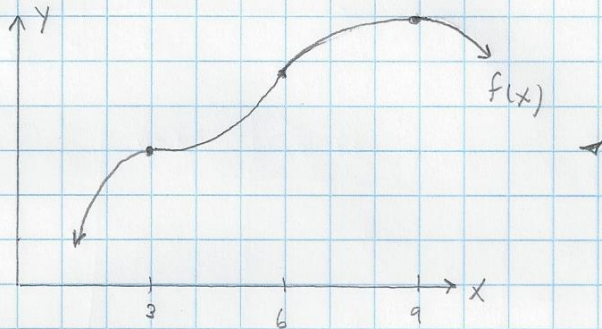
5.3. Using f' and f'' to Sketch f

10F1

Example. Use the table to sketch a possible graph of $y=f(x)$.

	$x \in (-\infty, 3)$	$x=3$	$x \in (3, 6)$	$x=6$	$x \in (6, 9)$	$x=9$	$x \in (9, \infty)$
$f'(x)$	+	0	+	+	+	0	-
$f''(x)$	-	0	+	0	-	-	-

SOLUTION



CLASS WORK

Use the table to sketch a possible graph of $y=f(x)$.

	$x \in (-\infty, 2)$	$x=2$	$x \in (2, 4)$	$x=4$	$x \in (4, 6)$	$x=6$	$x \in (6, \infty)$
$f'(x)$	-	0	+	+	+	0	+
$f''(x)$	+	+	+	0	-	0	+

SOLUTION

