4C Checkup

1. (a) Find the absolute extrema of f and where they occur
(b) Find any points of inflection
(c) Sketch a possible graph of f

f is continuous on [0, 3] and satisfies the following

X	0	1	2	3
f	0	2	0	-2
f'	3	0	Does not exist	-3
f''	0	-1	Does not exist	0

X	0 < x < 1	1 < x < 2	2 < x < 3
f	+	+	-
f'	+	-	-
f''	-	-	-

2. Find the derivative of the function $y = f(x)$ to find the points at which f has a (a) local maximum (b) local minimum, or (c) point of inflection

$y' = (x-1)^2(x-2)$