

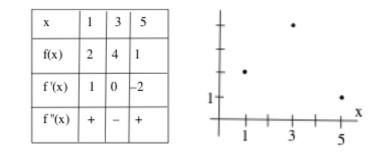
(2) 3.
$$f'(x) = \frac{x-4}{x-6}$$
 on the interval $2 \le x \le 8$ has critical numbers at $x =$ _____

3. (a) If f'(x)=g'(x) for all x, then f(x) and g(x) ______ (fill in)

(4) (b) If g(3) is a global maximum of g, then g '(3)=0. True False (circle one)
(c) If f'(x)=g'(x) for all x, f(2)=3, g(2)=7, and f(5)=8, then g(5) = _____

- (d) If f'(x) < 0 for all x then the maximum of f on [1, 5] occurs at x =_____
- Sketch the graph of y=f(x) with the properties given in the table.

(3)



The graph of y = f '(x) is shown and f(0)=1.
 Sketch a good graph of the shape of f.

