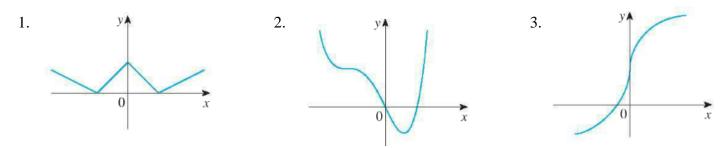
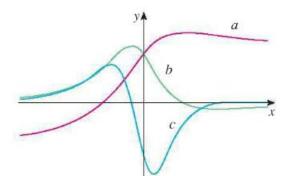
#s 1 – 3: Trace or copy the graph of the given function f. Assume that the axes have equal scales. Sketch the graph of f' just below it.



#s 4 - 6: Find the derivative of the function using the definition of derivative. State the domain of the function and the domain of its derivative.

- 4. $f(x) = \frac{1}{2}x \frac{1}{3}$ 5. $f(x) = x^2 2x^3$ 6. $g(t) = \frac{1}{\sqrt{t}}$
- 7. The figure shows the graphs of f, f', and f''. Identify each curve, and explain your choices.



8. The figure shows the graphs of three functions. One is the position function of a car, one is the velocity of the car, and one is its acceleration. Identify each curve, and explain your choices.

