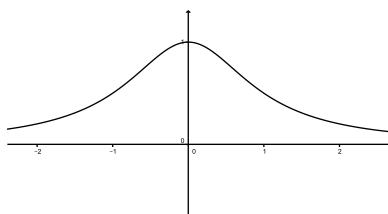
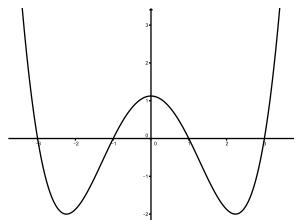
- 1. Sketch graphs of functions f(x) for which:
 - (a) f'(x) > 0 for all x.
 - (b) f'(x) < 0 for -2 < x < 2, and otherwise $f'(x) \ge 0$.
 - (c) f'(x) = 1 for all x < 0 and f'(x) = -1 for all x > 0.
- 2. For the functions whose graphs are shown below, carefully sketch graphs of the derivatives.

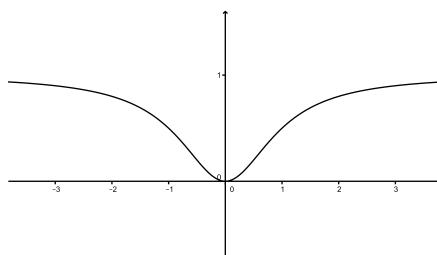
(a)

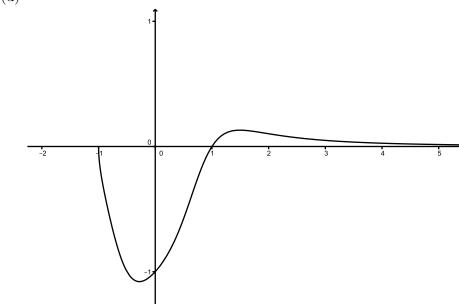


(b)









3. Find all points on the graph of $f(x) = x^3 - 3x^2 - 9x + 1$ where the tangent line is parallel to the tangent line at x = 2.