**First Derivative Test Take-Home Assignment**

1. **Always true/Never true/Sometimes True:**

* For a continuous function , if or dne, then attains a relative min or max at .
* For a continuous function , if attains a relative min or max at , then or dne.

1. **Draw at least two graphs to illustrate your positions:**
2. **Explain to an adult what a derivative is and why we would solve or . Have her/him write an explanation (and sign):**
3. **Brainstorm with the adult examples of continuous functions we might want to know the relative mins/maxs of. Write at least three examples here:**

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