Warm-up Problems

1. Draw a picture representing the Mean Value Theorem.

Lecture Problems

2. Let \( f(x) = x^3 \) on \([0, 1]\). Find the point \( c \) guaranteed by the MVT.

3. Let \( f(x) = x^3 \) on \([-1, 1]\). Find the point \( c \) guaranteed by the MVT.

4. Let \( f(x) = |x| \) on \([0, 1]\). Find the point \( c \) guaranteed by the MVT.

5. Let \( f(x) = |x| \) on \([-1, 1]\). Find the point \( c \) guaranteed by the MVT.