







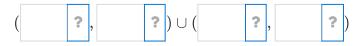
## Lecture Six Practice

Practice problems for Lecture Six

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Abstract. Practice problems for Lecture Six Content

**Problem.** 1: Find each interval over which  $f(x) = \frac{10}{(x+8)^2}$  is differentiable.



**Problem. 2:** Find each interval over which  $f(x) = \frac{1}{(x+4)(x+3)}$  is differentiable.



**Problem.** 3: Find the derivative of the function using the definition of the derivative.

$$f(x) = 2x - 2$$

$$f'(x) =$$

**Problem.** 4: Find the derivative of the function using the definition of the derivative.

$$f(x) = \frac{3}{\sqrt{x}}$$

f'(x) =