Show all work clearly and in order, and box your final answers. Justify your answers whenever possible. You have 20 minutes to take this 10 point quiz.

1. [5 points] A graph of both \( f(x) \) and \( f'(x) \) are below. Which one is which?

![Graph of \( f(x) \) and \( f'(x) \)](image)

Figure 1: _____ in solid black and _____ in dashed red.

2. [5 points] Find \( f'(x) \) using the definition.\(^1\)

\[
f(x) = \frac{2x + 1}{x + 3}
\]

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\(^1\)This is one of the definitions that we’ve been using in class:

\[
f'(x) = \lim_{h \to 0} \frac{f(x + h) - f(x)}{h}.
\]