The graphs of the functions $f(x)$ and $g(x)$ are included here for your convenience.

\[ y = f(x) \]

\[ y = g(x) \]

g. [3 points] Find all the values of $x$ with $-5 < x < 4$ at which the function $f(x)$ is not continuous.

Answer: 

h. [2 points] What is the range of $y = g(x)$?

Answer: 

i. [2 points] For which of the following values of $x$ is $f'(x) > 0$? Circle all that apply.

\[ x = -5 \quad x = -1 \quad x = 1.5 \quad x = e \quad \text{NONE OF THESE} \]

2. [5 points] Let 

\[ K(p) = (1 + \cos(p))^{1+2p}. \]

Use the limit definition of the derivative to write an explicit expression for $K'(4)$. Your answer should not involve the letter $K$. Do not attempt to evaluate or simplify the limit. Please write your final answer in the answer box provided below.

Answer: $K'(4) =$