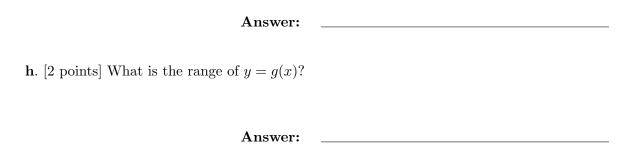


The graphs of the functions f(x) and g(x) are included here for your convenience.

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



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

x = -5 x = -1 x = 1.5 x = e 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) =