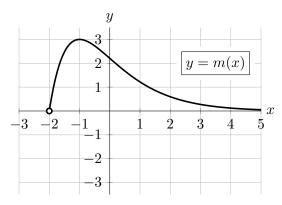
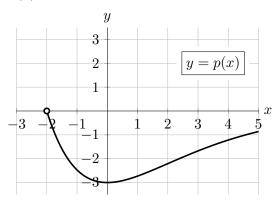
**6.** [4 points] Shown below at left is a portion of the graph of a function m(x). Shown below at right is a portion of the graph of a function p(x), which can be obtained from m(x) through one or more graph transformations. Find a formula for p(x) in terms of m(x).





**Answer:** p(x) =\_\_\_\_\_\_

**7**. [9 points] For a constant c, let

$$K(x) = \frac{2^{cx}}{e^{x-c}}.$$

**a.** [5 points] Use the limit definition of the derivative to write an explicit expression for K'(3). Your answer may include the constant c but should not involve the letter K. Do not attempt to evaluate or simplify the limit. Write your final answer in the answer box provided below.

Answer: K'(3) =

**b.** [4 points] Find the value of c so that K(1) = 5. Give your answer in **exact form** and show all your work.

Answer: c =