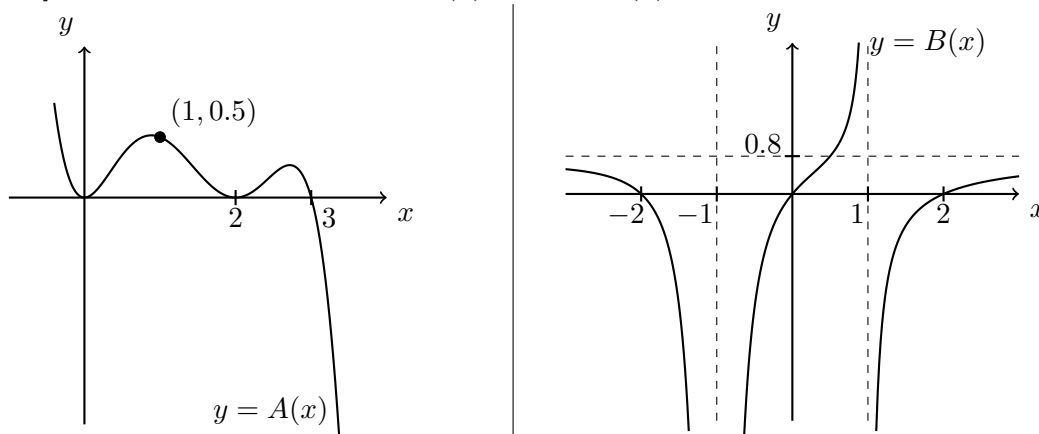


4. [11 points] Consider the graphs of $y = A(x)$ and $y = B(x)$ given below:



a. [2 points] $A(x)$ is a degree 5 polynomial. Write down all of its zeros.

$A(x)$ has zeros at $x =$ _____.

b. [3 points] Write down a formula for $A(x)$, showing **all** your work.

$A(x) =$ _____.

c. [3 points] The graph of $B(x)$ has vertical asymptotes at $x = -1$ and $x = 1$, and a horizontal asymptote at $y = 0.8$. If $B(x) = \frac{p(x)}{q(x)}$ where $p(x)$ and $q(x)$ are polynomials, write down all the zeros of both polynomials.

$p(x)$ has zeros at $x =$ _____.

$q(x)$ has zeros at $x =$ _____.

d. [3 points] Write down a possible formula for $B(x)$.

$B(x) =$ _____.