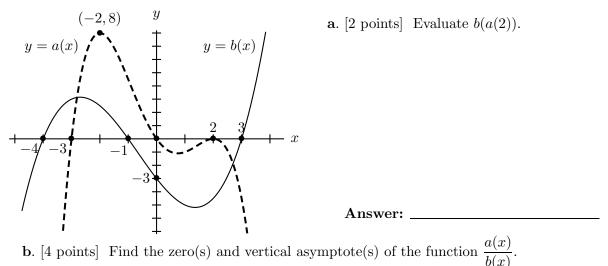
8. [12 points] The graphs of two polynomials a(x) (dashed line) and b(x) (solid line) are shown below. Assume all the key features of the graphs are shown. Note: No work or explanation is required for parts (a)–(c). However, partial credit may be awarded for work shown.





Zero(s): \_\_\_\_\_ Vertical asymptote(s): \_\_\_\_\_ c. [2 points] Estimate the horizontal intercept(s) of the function a(x) - b(x).

Horizontal intercept(s):

**d**. [4 points] Find a possible formula for the polynomial a(x). You do not need to simplify your answer. Show your work.

## a(x) =\_\_\_\_\_