8. [5 points] Consider the polynomial:  $G(x) = x^5 - 6x^3 + 9x$ . Find the zero(s) of G. Your answer should be **exact**, and must be found *algebraically*. If there are no zeros, write NONE in the space provided:

Zero(s): \_\_\_\_\_

**9.** [5 points] Below is part of the graph of a polynomial P(w). Assume that the point (1,1.25) lies on the graph of y = P(w) and P(w) has **exactly** three distinct zeros. Find a possible formula for P(w) so that it has the **smallest** degree possible. Show your work carefully.



