

NAME: \_\_\_\_\_ SCORE: \_\_\_\_\_



Objective:

Solve problems involving polynomials



TASKS



Read each situation and give the needed information.

PROBLEM	POSSIBLE SOLUTION	DIAGRAM (if applicable)
Find the polynomial function which represents the volume of a rectangular prism and with the zeros $\{3, -3, 1\}$ .		
The area of a square garden is represented by $(x)=(36x^2-96x+64)$ <b>square feet</b> . How long is one side?		
The volume of a box is $V(x) = (2x^3 + 7x^2 + 3x)$ <b>cubic centimeters</b> . Which of the following expressions represents its length?		
A car manufacturer determines that the company's profit, $P$ , can be modeled by the function $P(x) = x^4 + 2x - 3$ , where $x$ represents the number of cars sold. What is the profit when $x = 200$ ?		
A grocer spent a total of $(a^3 + 5a^2 + 2a + 10)$ <b>pesos</b> in purchasing disinfectants worth $(a^2+2)$ <b>pesos per gallon</b> . How many gallons of disinfectant was purchased by the grocer?		