Innovative Learning Sheets 4 | PROBLEMS ON POLYNOMIALS

NAME: _____ SCORE: _____

Objective:

Solve problems involving polynomials.

TASKS

Read each situation and give the needed information.

PROBLEM	POSSIBLE SOLUTION
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 $f(x)=(36x^2-96x+64)$ $square\ feet$. How long is one side?	
The volume of a box is $V(x) = (2x^3 + 7x^2 + 3x)$ $cubic\ centimeters$. Which of the following expressions represents its length? a_____ b_____ c_____	
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 there are 200 cans sold?	
A grocer spent a total of $(a^3 + 5a^2 + 2a + 10)$ $pesos$ in purchasing disinfectants worth (a^2+2) $pesos\ per\ gallon$. How many gallons of disinfectant was purchased by the grocer?	