WORKSHEET 4 | PROBLEMS ON POLYNOMIALS

4

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 $(x)=(36x2-96x+64)$ $square\ feet$. How long is one side?		
The volume of a box is $V(x) = (2x3 + 7x2 + 3x)$ $cubic\ centimeters$. 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 $(a^3 + 5a^2 + 2a + 10)$ $pesos$ in purchasing disinfectants worth (a^2+2) $pesos\ per\ gallon$. How many gallons of disinfectant was purchased by the grocer?		

LIVEWORKSHEETS