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Polynomial

Function Word

Problems And  
Solutions

# Polynomial Function Word Problems And Solutions

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## **Polynomial Function Word Problems And**

How to solve word

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problems with  
polynomial equations?

Examples: 1. The sum of a number and its square is 72. Find the number. 2. The area of a triangle is  $44\text{m}^2$ . Find the lengths of the legs if one of the legs is 3m longer than the other leg. 3. The top of a 15-foot ladder is 3 feet farther up a wall than the foot is from the bottom of the wall.

## **Polynomial equation**

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**word problems**

**(solutions, examples**

**Solutions**

Below are some of the examples of polynomial word problems which you will find quite useful in understanding polynomials and their attributes when they are added, subtracted, multiplied or divided.

Exercise 1. Find  $a$  and  $b$  if the polynomial  $.$  is divisible by  $.$  Matthew.

Maths Teacher. 5.00

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**Polynomial Word**

**Problems |**

**Superprof**

Polynomial word

problem: rectangle and

circle area. Polynomial

word problem: total

value of bills. This is

the currently selected

item. Polynomial word

problem: area of a

window. Next lesson.

Introduction to

factorization. Video

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transcript. Write a polynomial to express the total value of  $p$  \$20 bills,  $q$  \$10 bills, and  $r$  \$5 bills.

### **Polynomial word problem: total value of bills (video ...**

Polynomial Function - Word Problem. The length of a rectangle is 8 meters more than the width. If both the width and length get doubled, the area would be 192 square

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meters. Find the dimensions of the original rectangle. Follow • 2.

**Polynomial Function  
- Word Problem |  
Wyzant Ask An  
Expert**

Polynomial Functions.  
The word problems  
presented in this  
workbook will help you  
understand how  
Mathematics relates to  
the real world. As you  
explore the problems



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Solutions  
presented in the book,  
try to make  
connections between  
Mathematics and the  
world around you!

## **Polynomials and Factoring Word Problems - GeoGebra**

Chapter 5 : Polynomial  
Functions. Here are a  
set of practice  
problems for the  
Polynomial Functions  
chapter of the Algebra  
notes. If you'd like a

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pdf document containing the solutions the download tab above contains links to pdf's containing the solutions for the full book, chapter and section.

## **Algebra - Polynomial Functions (Practice Problems)**

Engaging math & science practice!  
Improve your skills with free problems in

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'Solving Polynomial

Functions for Real

Number Solutions  
Given a Word Problem'  
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practice lessons.

## **Solving Polynomial Functions — Solving Polynomial ...**

Problem 1: The graph  
of a cubic polynomial.  
 $y = a x^3 + b x^2 + c x + d$ .  
is shown below. Find  
the coefficients  $a$ ,  $b$ ,  $c$   
and  $d$ . Solution to

Problem 1: This

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polynomial has a zero of multiplicity 1 at  $x =$

$-2$  and a zero of multiplicity 2 at  $x = 1$ .

Hence the polynomial may be written as.  $y = a(x + 2)(x - 1)^2$ .

### **Polynomial Questions and Problems with Solutions**

Math · Algebra (all content) · Polynomial expressions, equations, & functions ·

Polynomials word

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problems. Polynomial  
word problem: area of  
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HSA.CED.A.1. Google  
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problems. Polynomial  
multiplication word  
problem. Polynomial  
word problem:  
rectangle and circle ...

**Polynomial word  
problem: area of a  
window (video) |**

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#### **Khan ...**

Polynomial Functions .

Another type of function (which actually includes linear functions, as we will see) is the polynomial.

A polynomial function is a function that is a sum of terms that each have the general form  $ax^n$ , where  $a$  and  $n$  are constants and  $x$  is a variable. Thus, a polynomial function  $p(x)$  has the following general form:

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Problem. You are  
making a fence for  
your garden. The  
length is five less than  
two times the width. ...  
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2 Calculus Geometry  
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Linear Equations...



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variation and inverse

variation Word

problems on unit price.

Word problems on unit

rate

## **Example Problems of Multiplying Polynomials**

What English

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statements translate into polynomials and rational expressions?

Polynomials often appear in problems where one quantity depends on another. In other words, the quantities are clingy.

### **Polynomial Division and Rational Expressions Word Problems**

Polynomial Functions  
Graphing - Multiplicity,  
End Behavior, Finding

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Zeros - Precalculus &

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## **Polynomials Word Problems**

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*Page 21/25*

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In this unit you will see how to: - use polynomials to solve problems involving

geometric figures - use polynomials to solve problems involving falling objec...

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Systems of two equations, word problems Points in three dimensions

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Planes Systems of  
three equations,  
elimination Systems of  
three equations,  
substitution Cramer's  
rule:  $2 \times 2, 3 \times 3$ . ...

Polynomial equations

Basic shape of graphs  
of polynomials

Graphing polynomial  
functions The Binomial

Theorem. Radical

Functions and Rational  
Exponents

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*Page 23/25*

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### Function Word

### Problems And

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Etymology. The word polynomial joins two diverse roots: the Greek poly, meaning "many," and the Latin nomen, or name. It was derived from the term binomial by replacing the Latin root bi- with the Greek poly-. The word polynomial was first used in the 17th century.. Notation and terminology. The  $x$  occurring in a polynomial is commonly called either



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a variable or an  
indeterminate.

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