

## Online Library 7 1 Skills Practice Polynomial Functions Answer Key

# 7 1 Skills Practice Polynomial Functions Answer Key

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### **7 1 Skills Practice Polynomial**

This 7-1 Skills Practice: Polynomial Functions Worksheet is suitable for 10th - 11th Grade. In this polynomial function worksheet, students identify the degree and leading coefficient of given polynomials. They find values for given equations and graph functions.

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## 7-1 Skills Practice: Polynomial Functions Worksheet for ...

Lesson 7-1 Polynomial Functions 349 Graphs of Polynomial Functions For each graph, • describe the end behavior, • determine whether it represents an odd-degree or an even-degree polynomial function, and • state the number of real zeros. a. b. c. a. •  $f(x) \rightarrow$  as  $x \rightarrow$  .  $f(x) \rightarrow$  as  $x \rightarrow$  . • It is an even-degree polynomial function.

## Chapter 7: Polynomial Functions

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## [DOC] 7 1 Skills Practice Polynomial Functions Answer Key

Lesson 7-1 State the degree and leading coefficient of each polynomial in one variable. If it is not a polynomial in one variable, explain why.

1. a Find 8 1; 1 2.  $(2x + 1)(4x^2 + 6x + 3)$  3; 8 3.  
5  $x^5 + 3x^3$  variables, 8 5; 5 4.  $18x^3 + y^2 + 2y^5 + 7y^6 + 6$ ; 7 5.  $u^3 + 4u^2 + v^2 + f + v^4$  6.  $2r + r^2$  No, this polynomial contains two No, this is not a ...

## Chapter 7 Resource Masters

7. The sum of the two polynomials  $(3x^2 + y - 4xy + 2 + 2y^3)$  and  $(6xy^2 + 2x^2 + y - 7)$  in simplest form is  $5x^2 + 2xy^2 + 2 + 2y^3 - 7$ .

A 8.  $(4m^2 + m - \dots)$  Chapter 7 7 Glencoe Algebra 1 Skills Practice Multiplying Monomials Determine whether each expression is a monomial. Write yes or no. Explain.

## Answers (Anticipation Guide and Lesson 7-1)

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Skills Practice There is one master for each lesson. These provide computational practice at a basic level. WHEN TO USE These masters can be ... Lesson 7-1 Polynomial Functions A polynomial of degree  $n$  in one variable  $x$  is an expression of the form  $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$

## Chapter 7 Resource Masters - Math Class

1.7 Skills Practice Factor each polynomial, if possible. If the polynomial cannot be factored using integers, write prime. USE MRS. ROSS' XBOX SHORTCUT AS SHOWN IN #1 AND #3. 1.  $2x^2 + 5x + 2$  Factors of  $2 \cdot 2 = 4$ : 1, 4 2.  $3x^2 + 5n + 2$ , 2 1 4

**#7 and 11 have been done. 1. 2. 3.  $8ax$  56a 4.  $81r + 48rt$**

Skills Practice Polynomial Functions 5-3 State the degree and leading coefficient of each polynomial in one variable. If it is not a polynomial in one variable, explain why. 1.  $a + 8$  2.  $(2x^3 + 8 - 1)(4x^2 + 3)$  3.  $-5x^5 + 3x - 8$  4.  $18 - 3y + 5y^2 - y^5 + 7y^6$  5.  $u^3 +$

## Online Library 7 1 Skills Practice Polynomial Functions Answer Key

$4u^2t^2 + t^4$  6.  $2r-r^2 + -1$   $2r$  Find  $p(-1)$  and  $p(2)$  for each function.  
7.  $p(x) = 4 - 3x \dots$

### NAME DATE PERIOD 5-3 Skills Practice

Chapter 12 Skills Practice 619 12 Lesson 12.1 Skills Practice page 3 Name Date Determine whether each polynomial is a monomial, binomial, or trinomial. State the degree of the polynomial. 15.  $16.8x^1$  3 The polynomial is a binomial with a degree of 1.  $5m^2$  The polynomial is a monomial with a degree of 2. 17.  $x^2$   $2$   $7x$  The polynomial is a binomial ...

### Controlling the Population

Lesson 8-7 Chapter 8 45 Glencoe Algebra 1 Skills Practice Solving  $ax^2 + bx + c = 0$  Factor each polynomial, if possible. If the polynomial cannot be factored using integers, write prime. 1.  $2x^2 + 5x + 2$  2.  $3n^2 + 5n + 2$   $(x + 2)(2x + 1)$   $(3n + 2)(n + 1)$  3.  $2t^2 + 9t - 5$  4.  $3g^2 - 7g + 2$   $(t + 5)(2t - 1)$   $(3g - 1)(g - 2)$  5.  $2t^2$  2-

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$11t + 15$  6.  $2x + 3x \dots$

## **NAME DATE PERIOD 8-7 Skills Practice**

Section 7.3 Factoring and Solving Polynomial Equations A2.1.4 Determine rational and complex zeros for quadratic equations; A2.5.1 Determine whether a relationship is a function and identify independent and dependent variables, the domain, range, roots, asymptotes and any points of discontinuity of functions.

## **7.3 Solving Polynomial Functions by Factoring - Algebra 2**

Lesson 8-1 Chapter 8 7 Glencoe Algebra 1 Skills Practice Adding and Subtracting Polynomials Find each sum or difference. 1.  $(2x + 3y) + (4x + 9y)$   $6x + 12y$  2.  $(6s + 5t) + (4t + 8s)$   $14s + 9t$  3. ... Determine whether each expression is a polynomial. If it is a polynomial, find the

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## NAME DATE PERIOD 8-1 Skills Practice

Practice Polynomials Determine whether each expression is a polynomial. If it is a polynomial, state the degree of the polynomial.

- $4a^5d^3$
- $12m^5n^9$
- $5x^3 + 2xy^4 + 6xy^2$
- $ac - 3$
- $(m - n)^2$
- $25x^3z - x^2 - 5$
- $6c^2 + c - 1$
- $5 + 6$
- Simplify.
- $(3n^2 + 1) + (8n^2 - 8)$
- $(6w - 11w^2) - (4 + 7w^2)$
- $(-6n - 13n^2) + (-3n + 9n^2)$
- 

## NAME DATE PERIOD Study Guide and Intervention

Section 7.2 Polynomial Functions A2.5.2 Graph and describe the basic shape of the graphs and analyze the general form of the equations for the following families of functions: linear, quadratic, exponential, piece-wise, and absolute value (use technology when appropriate.);

## 7.2 Polynomial Functions - Algebra 2

Chapter 8 14 Glencoe Algebra 1 Skills Practice Multiplying a



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Polynomial by a Monomial Find each product. 1.  $a(4a + 3)$  2.  $-c(11c + 4)$  3.  $4a^2 + 3a - 11c^2 - 4c$  4.  $x(2x - 5)$  5.  $2y(y - 4)$  6.  $2x^2 - 5x^2y^2 - 8y$  7.  $-3n(n^2 + 2n)$  8.  $4h(3h - 5)$  9.  $-3n^3 - 6n^2$  10.  $12h^2 - 20h$  11.  $3x(5x^2 - 2x + 4)$  12.  $7c(5 - 2c + c^3)$  13.  $15x^3 - 3x^2 + 12x$  14.  $35c - 14c^3 + 7c^4$  15.  $-4b(1 - 9b - 2b^2)$  16. ...

### NAME DATE PERIOD 8-2 Skills Practice

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### NAME DATE PERIOD 8-3 Skills Practice

Lesson X-1 NAME DATE PERIOD Lesson 5-1 PDF Pass Chapter 5 7  
Glencoe Algebra 2 5-1 Skills Practice Operations with  
Polynomials Simplify. Assume that no variable equals 0. 1.  $b^4$  2.  $5b^2$  3.  $c$  4.  $c^9$  5.  $c^2$  6.  $a - 4$  7.  $5a^3$  8.  $x$  9.  $x - 4$  10.  $x$  11.  $(2x)^2(4y)^2$  12.  $-2gh(g^3h^5)$  13.  $10x^2y^3(10xy^8)$  14.  $2 - 4wz$  15.  $7^3w^3z^5w^9$  16.  $-6a^4bc$  17.  $36a^7b^2c$  18.  $-10p^4r^5p^3t$  ...

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## **NAME DATE PERIOD 5-1 Skills Practice**

Chapter 8 7 Glencoe Algebra 1 8-1 Skills Practice Adding and Subtracting Polynomials Find each sum or difference. 1.  $(2x + 3y) + (4x + 9y)$  2.  $(6s + 5t \dots$  Determine whether each expression is a polynomial. If it is a polynomial, find the degree and determine whether it is a monomial, binomial, or trinomial. 11.  $5mt + !!$  12.  $4by + 2b - by$

## **8-1 Skills Practice**

This 7-2 Skills Practice Graphing Polynomial Functions Worksheet is suitable for 10th - 12th Grade. In this polynomial function worksheet, students create a table of functions and graph the data. They identify the relative maxima and minima of each function.

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