

# HEISENBERG TUTORIAL CENTER

#### **MATHEMATICS 8**

Name: \_\_\_\_\_

Score: \_\_\_\_\_

#### Lesson: Factoring Polynomials by Grouping

#### Factor each completely.

1) 
$$4v^3 + 2v^2 - 10v - 5$$

A) 
$$(2v^2 + 5)(2v - 5)$$

B) 
$$(2v^2 - 5)(2v + 1)$$

C) 
$$(2v^2 + 5)(2v + 1)$$

D) 
$$(2v^2-5)(2v-1)$$

3) 
$$15k^3 + 12k^2 - 10k - 8$$

A) 
$$(5k-2)(3k^2-4)$$

C) 
$$(3k^2 + 4)(5k + 2)$$

D) 
$$(3k^2-2)(5k+4)$$

5) 
$$21v^3 - 14v^2 - 9v + 6$$

A) 
$$3(7v^2 + 3)(v - 1)$$

B) 
$$3(7v^2-2)(v-1)$$

C) 
$$(7v^2 + 3)(3v + 2)$$

D) 
$$(7v^2 - 3)(3v - 2)$$

7) 
$$10b^3 + 25b^2 + 12b + 30$$

A) 
$$10(b+3)(b^2+1)$$

B) 
$$(5b^2+6)(2b+5)$$

C) 
$$10(b+3)(b-1)(b+1)$$

D) 
$$10(b^2+1)(b-3)$$

9) 
$$28x^3 + 16x^2 - 49x - 28$$

A) 
$$4(4x^2 + 7)(x^2 + 1)$$

B) 
$$28(x^2+1)(x-1)$$

C) 
$$4(4x^2+7)(x-1)(x+1)$$

D) 
$$(4x^2 - 7)(7x + 4)$$

2) 
$$21x^3 + 18x^2 - 14x - 12$$

A) 
$$3(3x^2 + 2)(x^2 + 2)$$

B) 
$$3(3x^2-2)(x^2-2)$$

C) 
$$(3x^2-2)(7x+6)$$

D) 
$$(3x^2 + 2)(7x - 6)$$

4) 
$$3x^3 - 5x^2 + 9x - 15$$

A) 
$$(x^2 - 3)(3x - 5)$$

B) 
$$(x^2 + 3)(3x - 5)$$

C) 
$$(x^2 + 3)(3x + 5)$$

D) 
$$(x^2 + 3)(x^2 - 5)$$

6) 
$$12x^3 - 18x^2 - 2x + 3$$

A) 
$$(6x^2-1)(2x-3)$$

B) 
$$(6x^2-1)(2x-1)$$

C) 
$$(6x^2 + 1)(2x + 1)$$

D) 
$$(6x^2 + 1)(2x - 3)$$

8) 
$$35m^3 + 30m^2 - 7m - 6$$

A) 
$$(5m^2 + 1)(5m^2 - 6)$$

B) 
$$(5m^2 + 1)(7m + 6)$$

C) 
$$(5m^2-1)(7m+6)$$

D) 
$$(5m^2 + 6)(7m - 1)$$

10) 
$$4b^3 - 24b^2 + b - 6$$

A) 
$$2(2b^2-3)(b+1)$$

B) 
$$(2b-1)(2b+1)(b-6)$$

C) 
$$(4b^2 + 1)(b - 6)$$

D) 
$$(2b-1)(2b+1)(b+6)$$

# <u>Factoring Polynomials Worksheet Instructional Fair</u> <u>Answers</u>

**Yicheng Fang** 

# **Factoring Polynomials Worksheet Instructional Fair Answers:**

Prentice Hall Algebra 1 Jan Fair,1992 El-Hi Textbooks & Serials in Print, 2003, 2003 Current Index to Journals in Education, 1983 The Complete Sourcebook on Children's Software Children's Software Review, 2001-03 5000 critical reviews of CDs videogames smart toys for ages 1 to 16 Factoring Polynomials Exercise Workbook L. Castelluzzo, 2019-11-03 This book provides the reader with an opportunity to practice factoring binomials and trinomials The solutions are provided for each question with all steps so that the student will be able to pinpoint exactly where any errors may have been made This book does not teach the theory but instead it is intended to allow students to practice what they have learned in their mathematics course Polynomials and factoring Marsha Horvath, 1999

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