

Name: _____
 Algebra: Unit 6 – Factoring and Quadratics

Date: _____
 Unit Exam – Form A

Part 1: Answer all 15 questions in this part. Each correct answer will receive 3 credits. No partial credit will be allowed. For each question, write on the separate answer sheet the letter preceding the word or expression that best completes the statement or answers the question. [30]

1. In the expression, $6x + 18$, what is the greatest common factor?

(A) $6x$

(C) 6

(B) 9

(D) 3

2. How many possible solutions does the equation $4x^2 - 8x^2 + 8x - 1$ have?

(A) 1

(C) 3

(B) 2

(D) 4

3. What are two factors of 6 whose sum is -5?

(A) -1 and -6

(C) 2 and 3

(B) 1 and 6

(D) -2 and -3

4. The expression $x^2 - 16$ is equivalent to:

(A) $(x + 2)(x + 8)$

(C) $(x + 2)(x - 8)$

(B) $(x + 4)(x - 4)$

(D) $(x - 8)(x - 8)$

5. Expressed in factored form, the binomial $4x^2 - 9x^2$ is:

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

(C) $(2x - 3x)(2x - 3x)$

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

(D) $(2x - 3x)(2x - 3x)$

6. What are the factors of $x^2 - 8x + 15$?

(A) $(x - 3)(x + 5)$

(C) $(x - 5)(x - 3)$

(B) $(x - 1)(x - 15)$

(D) $(x + 5)(x + 3)$

7. If Anna correctly factors an expression that is the difference of two perfect squares, her factors could be:

(A) $(2x + x)(x - 2x)$

(C) $(x - 4)(x - 4)$

Factoring Quadratics Unit 05 Lesson 01 Key

Karin Nielsen-Saines



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