NAME _____ DATE _____ PERIOD _____

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Chapter Review

Role Playing

For this review you will play the roles of both student and teacher. In the student role, you will answer each question. In the teacher role, you will write each question.

Student Role

_____ **1.** What is the degree of the polynomial $y^4 - y^8 + 100$?

_____ **2.** Simplify $(2x^3)^5$.

_____ **3.** Simplify $3x(x^4)^2$.

_____ **4.** Add $(4x + 5y) + (y - 3x)$.

_____ **5.** Subtract $(2a + 7b) - (8a - b + 1)$.

_____ **6.** Multiply $3x(4x + 5)$.

_____ **7.** Multiply $(x + 2)(x + 4)$.

For the teacher role, the answer and some keywords are given. Use the keywords to write a question. Refer to questions 1–7 as models. There are many different questions that you can write for each answer.

Teacher Role

4 **8.** _____
(keywords: degree of a polynomial)

$4x + 9$ **9.** _____
(keywords: adding polynomials)

$-x + 7$ **10.** _____
(keywords: adding polynomials)

$3x + 1$ **11.** _____
(keywords: subtracting polynomials)

$x^2 - 16$ **12.** _____
(keywords: multiplying polynomials)

Answers are located in the Answer Key.