

Name: _____ Date: _____

Mixed up Unit 1 review

Classifying Polynomials: For each of the following: Write in standard Form, Identify the leading coefficient, State the degree and the name of degree, and name by the number of terms

1) $8x^2 - 6x^3 - 4x$	2) $-x^3 + x^5 + 2x - 6$
3) $7x - 5x^3$	4) $-8x$
5) $9x^3 - x + 10 - 4x$	6) $5 - 3x^2$

Polynomial Operations (simplify each expression by either adding/subtracting or multiplying)

7) $(8x - x^3 + 2) - (7x - 8 + 7x^3)$	8) $(3x + 5)^2$
9) $5x - 8x^2 - 1 + 10x + x^2 + 10x^2$	10) $7x(3x - 2)$

Radical Operations (Simplify each expression)

11) $3\sqrt{2x} \cdot 4x\sqrt{12x^2}$	12) $2\sqrt{18} + 3\sqrt{40} - \sqrt{54}$
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Perimeter, Area, and Volume

13) A swimming pool is 9 feet longer than it is wide. What is the perimeter of the pool? What is the area?

14) Find the perimeter of the wooden garden wall



Conversions

15) How many Liters are in 62 mL?

16) Jake works at Papa Johns and can fold 8 pizza boxes in one minute. He needs to hold 1,180 boxes to prepare for the Super Bowl. How many hours will it take?

17) Convert 80 inches into mm (there are 2.54 cm = 1 in)

18) How many inches are in one mile?

19) Convert 50 mph into feet per second

20) How many gallons are in 450 ft³? (1 gallon = .134 ft³)