Study guide: Part I/II

This is part I (of II). The second part is a practice test of similar form to the actual one. The purpose of this guide is to help you organize the material we covered this unit, some of the more challenging problems we had, AND some extra guidance and suggestion for learning.

Homework

Below are all the homework assignments we had on this chapter.

You should be thoroughly familiar with these. This means, for example, that you should know how to get to the solution of each, AND do it at the right level. Also, we did many (countless) examples in class. Hopefully you have some record of this (in memory, writing, or pictures).

--Radical expressions

Page 295, Questions 5,6,7,12 Page 296, Questions 14, 19, 21, 33, 36, 39, 41, 44, 45, 46, 48 Honors: question 51 --Radical expressions: Multiply, Simplify, Addition Page 299, Questions 9,15,19,21,23,25,29,31 Page 303, Questions 7,11,17,21,29,37,47 Honors: 56,57 --Rational expressions: Conjugate Page 308, Question 1,7,25,29,31,45,51 Honors: Page 309 Question 67 --Radical Expressions: Rational numbers as Exponents Page 315-316, Questions: 9, 15, 19, 25, 33, 41, 45, 49, 55, 69 Honors: 79 --Solving Radical expressions Pages 319-320, Questions 1,17,19,25,35 Honors: 47, 50 --Complex numbers Page 323, Questions 9,11,19,21,23,29,31 Honors: 42,43,47 Page 329, Questions 3,5,7,9,17,19,22,31 Honors: 37

Warm-up Drills and Warm-up challenges

Every class we solved one (or more) warm-up problems. Some are harder than others. There are no 'Warm-up' level questions in the test in general, but I believe each one of those gives an additional insight into the material. Attached are the slides copy. I would highly recommend to look at these and verify you understand how to solve each one. We did solve all of those in class! (so you should have the solution). Warm up slides and Drills

The year(s) in perspective: 2016 -> 2017			
1. How many days were there in 2016?			
	_		
Unit 7 2017 New year Radical expressions			
What is the value of :			

Warm-up: Need to know !

Unit 7 Radical expressions

- 1. $7 \cdot 2 = ?$ 2. $8^3 \cdot 8^{-2} = ?$ 3. $(3^{-2} - 4) \cdot (4^{-3} - 2) = ?$
- 4. $\frac{4^8}{4^2} = ?$ 5. $3^{-4} = ?$
- $6. \quad \frac{32x^3y^{10}}{4x^4y^4} = ?$
- 7. $(4^{-})^{-} 4$ 8 $(-3)^{-4} - 9$
- 9. $(4^{-3})^3 = ?$
 - 10 (10 3 2 4)² = 2
 - 11 | 8 | = 2
 - 12. True or False:
 - a. |3 |= 3 | b. | + |= | | + |

2017 New year

Unit 7 Radical expressions

Which of the following is the same as the ratio

 $\frac{2^{2016} \cdot 3^{2018}}{62017}$

(A) $\frac{1}{6}$ (B) $\frac{1}{3}$ (C) $\frac{1}{2}$ (D) $\frac{2}{3}$ (E) $\frac{3}{2}$

Drill warm up

1. $(\sqrt{+3})^2 =$ 2. $\sqrt{(+3)^2} =$

3. $\sqrt[3]{(-2)^3} =$ 4. $\sqrt{-4} =$

Two simple	Unit 7 Radical expressions	

(A) 0 (B) | | (C) |- | (D) 2 · | |

Two simple	Unit 7 Radical expressions
1. 18 + 2 17 + 16 = (?) · (+ 1)^2	
Radicals	Unit 7 Radical expressions
Simplify $2^{x+4} - 2(2^{x+4})$	AMC10

Drill warm up

- 1. Simplify: $\frac{2}{3}\sqrt{4\frac{5}{2}} + \frac{3}{2}\sqrt[3]{16} + \frac{1}{4}\sqrt{72} =$ 2. $\frac{12\sqrt{68x^5y^3}}{\sqrt{4x^2y^2}} - \frac{9\sqrt{85x^7y^5}}{\sqrt{5x^4y^4}} =$
- A. $3\sqrt{17^{-3}}$ B. $6\sqrt{68^{-3}} 9\sqrt{17^{-3}}$ C. $21\sqrt{17}$ D. $3|\sqrt{17}$

Radica	ls			Unit 7 Radical expres	sions
Assume	< 0 . Which	of the follo	wing is equival	lent to	AMC10

Warm-up (timed!)

- 1. Simplify: $\sqrt{32}$
- 2. Simplify: $\sqrt{20^{-6-2-3}}$
- 3. Simplify: $5\sqrt{3} \cdot (3\sqrt{6} \sqrt{3})$
- 4. Simplify: $4\sqrt{3} + 2\sqrt{12} 2\sqrt{48} + 3\sqrt{75}$
- 5. Rationalize denominator: -
- 6. Rationalize denominator: $\frac{3-v}{2}$



Radicals	Unit 7 Radical expressions
	AMCTU
Radicals	Unit 7 Radical expressions



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