**UNIT 1 REVIEW FOR TEST Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
Number System (1.1)

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| Be able to classify numbers into all appropriate number systems:Real, Rational, Irrational, Complex, Imaginary, Integer, Whole, Natural |

Properties (1.1)

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| --- | --- |
| 1. Name the property demonstrated:

 8 + (-8) = 0  A) Distributive Property B) Inverse Property C) Identity Property D) Associative Property | 2) Name the property demonstrated: (2 · 5) · 4 = 4 · (2 · 5) A) Commutative Property B) Distributive Property C) Identity Property D) Associative Property |
| 1. Give an example of the Associative Property of Addition:
 | 1. Give an example of the Identity Property of Multiplication:
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Absolute value (1.7, 2.7, 2.8)

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| 1. Solve:

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| 1. Solve and graph your solution:
 | 1. Solve and graph your solution:
 |
| 1. Graph:

 | 1. Graph:

 |

Complex Numbers (4.6)

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| 1. Simplify:

  | 1. Simplify:
 | 1. Simplify:

 |
| 1. Simplify:

 | 1. Simplify:

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Exponents and Radicals (5.1 and 4.5)

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| 1. Write in Radical Form:
 | 1. Write in Exponential Form:
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| 1. $Simplify \left(\frac{x^{2}}{y^{-2}}\right)^{-4}$
 | 1. $Simplify \frac{2x^{-2}y^{5}}{16x^{3}y^{-2}}$
 |
| 1. $Simplify: \sqrt{150}$
 | 1. $Simplify: \frac{3+\sqrt{7}}{2-\sqrt{10}}$
 |

Apply same properties to Fractional Exponents and Higher Degree Radicals (6.1 and 6.2)

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| 1. $Simplify: 81^{\frac{1}{2}}$
 | 1. $Simplify: 27^{-\frac{2}{3}}$
 |
| 1. $Simplify: \sqrt[3]{48}$
 | 1. $Simplify: \left(3^{4}∙5^{4}\right)^{-\frac{1}{4}}$
 |
| 1. $Simplify: \left(25a^{10}b^{16}\right)^{\frac{1}{2}}$
 | 1. $Simplify: \sqrt{\frac{18x^{5}y^{4}}{49xz^{3}}}$
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