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| What is the make-up of the test?   * 8 Multiple Choice * 1 Error Analysis * 3 Word Problems * 10 Short Responses   \*\*Test will start shortly after the bell and turning in notebooks and homework packets. | What topics will I see on the test?   * Trig Ratios * Trig Functions * Angle of Elevation and Depression * Special Rights |

Special Right Triangles:

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| Steps for Solving:   1. Label all sides with their side length ratio. 2. Find a side that has a value. 3. Set that value equal to your ratio. 4. Solve for x. 5. Use your x to get the remaining sides.   \*\*ORDER MATTERS!! Side Length Ratios and Angles Correspond!!\*\* | Types of Special Rights:  Classification by angles: 45-45-90  Side Length Ratios: x – x – x    Classification by angles: 30-60-90  Side Length Ratios: x – x – 2x |

Trig Functions:

Sayings to help you remember how things are set up!

* SOH – CAH – TOA
* Some Old Hippie – Caught Another Hippie – Tippin On Acid
* Oscar Had – A Heap – Of Apples. Some Came Today!

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| SINE = | COSINE = | TANGENT = |

\*\* Trig Ratios: Only the side lengths set up in fraction form!

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| Tips for Solving:   1. Locate your angle. 2. Label your sides. 3. Determine your Trig Function 4. Set up your Equation. 5. Solve for x. | Calculator Tips:   * Your Calculator needs to be in DEGREE MODE. * We use INVERSE (2nd 🡪 Trig Function) when we are solving for angles. |

Angle of Elevation and Depression:

* The angles of elevation and depressions are congruent because they are alternate interior angles.
* To solve these, draw a picture and label it to assist you in solving.
* Read each sentence, if it has important information to solving, add it to your picture.
* Use same steps we did with the Trig functions to solve!