|  |  |
| --- | --- |
| 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:

|  |  |
| --- | --- |
| 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: 45-45-90Side Length Ratios: x – x – x$\sqrt{2 }$  Classification by angles: 30-60-90Side Length Ratios: x – x$\sqrt{3}$ – 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!

|  |  |  |
| --- | --- | --- |
| SINE = $\frac{opposite}{hypotenuse}$ | COSINE = $\frac{adjacent}{hypotenuse}$ | TANGENT = $\frac{opposite}{adjacent}$ |

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

|  |  |
| --- | --- |
| 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!