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| **Objectives:**  * Solve geometry questions.
* Solve trigonometry questions.

***MONDAY (10.28.24****)* |
| **Entry Work:**1. 30o = \_\_\_\_\_\_\_\_\_\_\_\_ radians
2. 72o = \_\_\_\_\_\_\_\_\_\_\_\_ radians
3. π/4 = \_\_\_\_\_\_\_\_\_\_\_\_ degrees
4. 3π/5 = \_\_\_\_\_\_\_\_\_\_\_ degrees

**Discuss the previously assigned homework:**1)**Find the missing sides and angles.right triangle**2)**Find the missing sides and angles.right triangle**3)**Find the missing sides and angles.right triangle**4)**Express**cos 32∘**in terms of sine.**5)**Express**sin 48∘**in terms of cosine.**(6) The base of a ladder is placed 3 feet away from a 10 -foot-high wall, so that the top of the ladder meets the top of the wall. What is the measure of the angle formed by the ladder and the ground?A diagram of a rectangular object  Description automatically generated**Class Work: Learn about/review The Law of Sines****The Law of Sines** (or**Sine Rule**) and **The Law of Cosines** are both very useful for solving triangles:Law of Sines |The Law of Sines works for any triangle, both right triangles and oblique triangles, when you know AAS, ASA, or SSA (Ambiguous Case).**Class Work/Homework:** |

1. **ASA are given:** In ΔABC, C = 80º, B = 34º and a = 16.
Find side b to nearest whole number.
2. **AAS are given:** In ΔRST, R = 30º, T = 95º and r = 8.
Find s to nearest tenth.
3. **SSA** **are given**: In ΔABC, A = 30º, a = 7, and b = 16.
Find B to the nearest whole number.
4. **SSA are given:** In ΔABC, A = 30º, a = 20, and c = 16.
Find B to the nearest whole number.

Study for the Quiz (The Law of Sines) to be taken during your next class period.

***WEDNESDAY (10.30.24****)*

**Quiz: The Law of Sines**

**Class Work/Homework: Learn about/review The Law of Cosines.**

The Law of Cosines works for any triangle, both right triangles and oblique triangles, when you know SAS or SSS. The **Law of Cosines** (also called the **Cosine Rule**) says:



1. **SAS are given**: How long is side c, rounded to the nearest hundredth?



1. **SSS are given:** What is Angle C, rounded to the nearest tenth?



***FRIDAY (11.1.24****)*

**Discuss the previously assigned work.**

**Class Work: You will be given 2 problems to solve. Turn in for a Quiz Grade today or at the beginning of class on Wednesday, November 6.** Illustrate the situation. Use The Law of Cosines. Show all the work.