1. Find the area of a triangle with sides 10 in., 15 in., and 23 in. Round answer to nearest tenth.

2. Find the midpoint of A(3, 4) and B(-5, -2).

3. $\angle 1$ and $\angle 2$ are a linear pair.
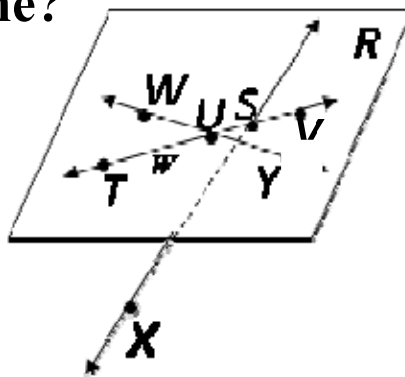
$m\angle 1 = 64°$. **Find $m\angle 2$.**

Use the figure below to answer the following:

4. **What is the name of the plane?**

5. $\overleftrightarrow{SX} \cap R =$

6. $\overline{TU} \cap \overline{UV} =$

7. $\overline{TS} \cap \overline{UV} =$

Geometry Week 5 Friday Warm-up

Use inductive reasoning to fill in the pattern.

1. 3, 8, 11, 19,_,__
2. a, c, f, j,_, __

Use deductive reasoning to answer the questions.

3. **If you are tardy 3 times, you get a detention. Sue was tardy for the third time today, therefore,**

_____ .

From the following set of numbers {4, 9, 16, 25} state which of the following are ~~true or false~~ **if you are** randomly selecting **two numbers from the set.**

4. **The square root of at least one will be a decimal.**
5. **The sum of the numbers will be odd.**
6. **Four will be a factor of the numbers.**

Identify the type of reasoning as inductive or deductive.
7. **John noticed that Tara wore a dress on Tuesdays for the entire month of November. On Monday John said, "I bet Tara wears a dress tomorrow."**

8 **Lana is shorter than Sheila. Lana notices that Sheila is shorter than Maria, and concludes that she is shorter than Maria.**

9. Solve the inequality: $-7x + 7 < -56$