

Name: \_\_\_\_\_

**Geometry Quarter 3 Week #1**  
**Distributed Practice**  
**Due Monday, February 1<sup>st</sup>**

In lieu of problem solving sheets, you will from time to time receive distributed practice sheets such as this one. Each sheet will have 7 problems worth 3 points each. One point will be awarded for the correct answer. Two points will be awarded for writing down the necessary work to solve the problem. You are not required to write an explanation for any of the problems, however, if you believe it is not possible to show any work, you may need to write a brief explanation depicting how you arrived at your answer. You must answer all questions.

1. Determine the equation of the line that contains the points (3, 1) and (4, -5). Write it in point-slope or slope intercept form.

2. Solve the system of equations

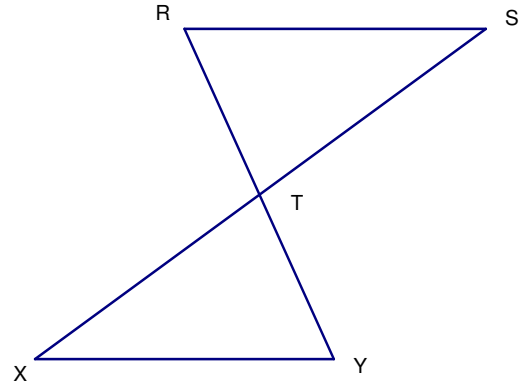
$$2x + 4y = 3$$

$$x + 3y = 13$$

3. Determine the lateral area of a square pyramid that has a base edge of 8 and a height of 3.

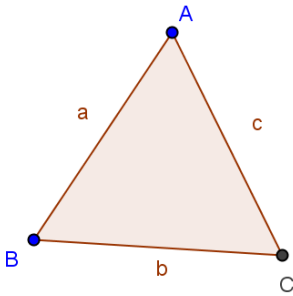
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4. Given:  $\overline{RS} \parallel \overline{XY}$ ;  $\overline{RS} \cong \overline{XY}$   
Prove:  $\overline{RT} \cong \overline{TY}$



5. There are 35 teams at a tournament. All teams will play each other exactly one time. How many games will take place?

6. Determine the exact area of the regular triangle shown below given that  $AB = 12$  units.



7. Determine the exact area of the regular hexagon below given that  $GC = 12$  units.

