

# Formal Geometry Assignments 2021 – 2022

## Chapter 2: REASONING AND PROOF

Day	Date	Assignment (Due the next class meeting)
Wednesday Thursday	9/08/21 (A) 9/09/21 (B)	<b>Chapter 1 Test</b> 2.1 p. 115 #16,18 – 19, 21,22,26-28,34,36,40-45,51,60,63 All textbook answers are on the website: <a href="http://www.washoeschools.net/DRHSmath">www.washoeschools.net/DRHSmath</a>
Friday Monday	9/10/21 (A) 9/13/21 (B)	2.2 and 2.4 Worksheet (included in this packet)
Tuesday Wednesday	9/14/21 (A) 9/15/21 (B)	Algebraic Proofs Wk (included in this packet) 2.3 and Constructions Wk ( <b>will be given in class</b> )
Thursday Friday	9/16/21 (A) 9/17/21 (B)	2.5 Worksheet (included in this packet)
Monday Tuesday	9/20/21 (A) 9/21/21 (B)	2.6 Worksheet (included in this packet)
Wednesday Thursday	9/22/21 (A) 9/23/21 (B)	Chapter 2 Review Worksheet ( <b>will be given in class</b> )
Friday Monday	9/24/21 (A) 9/27/21 (B)	<b>Study!!</b> (3.1 notes in class) Test next class
Tuesday Wednesday	9/28/21 (A) 9/29/21 (B)	<b>Chapter 2 Test</b> 3.1 p.226-229 # 18 – 26 even, 36 – 38 , 50, 52, 57, 58 <b>3.1 Extra Problems (back of this page)</b> Read pages 240-241 and 249-251 in your textbook.  All textbook answers are on the website: <a href="http://www.washoeschools.net/DRHSmath">www.washoeschools.net/DRHSmath</a>

**\*Each problem will be worth 1 point unless otherwise specified.**

**\*All assignments must be complete the day that they are due to receive full credit, this means:**

\*Every problem must be attempted with the picture drawn and work shown.

\* None of the proofs can be left blank

**\*Corrections are expected to be done to earn back points missed for each assignment.**

**\*Need Help? Try [www.khanacademy.org](http://www.khanacademy.org)**

- Students with no late or missing assignments for the entire semester will be rewarded with a pizza party
- Students with 100% assignment completion at the end of the semester will receive a 2% grade increase.

**Website for all worksheets: [www.washoeschools.net/DRHSmath](http://www.washoeschools.net/DRHSmath)**

### 3.1 Extra Problems

1. Identify which of the following is the best name for the figure formed by the coordinates:

$A(-1, -4), B(1, -1), C(2, -2)$ .

A. scalene triangle

C. equilateral triangle

B. isosceles triangle

D. obtuse triangle

2.

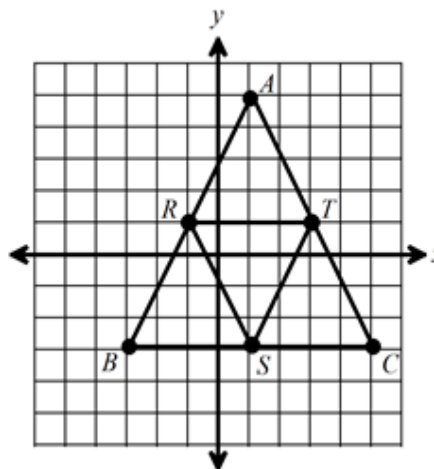
In the diagram below,  $R$  is the midpoint of  $\overline{AB}$ .  $T$  is the midpoint of  $\overline{AC}$ .  $S$  is the midpoint of  $\overline{BC}$ . Find the area of  $\triangle RST$  and  $AB$ .

A. Area of  $\triangle RST = 4$ ;  $AB \approx 4\sqrt{5}$

B. Area of  $\triangle RST = 8$ ;  $AB \approx 4\sqrt{5}$

C. Area of  $\triangle RST = 4$ ;  $AB \approx 8\sqrt{5}$

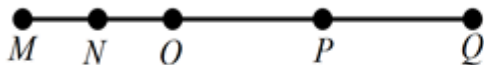
D. Area of  $\triangle RST = 8$ ;  $AB \approx 8\sqrt{5}$



3) A, B and C are collinear with B between A and C. Find the length of BC if  $AB = -x^2 - 8x + 60$ ,  $AC = 3x^2$ ,  $BC = -12x - 4$

4)

In the diagram below,  $MQ = 30$ ,  $MN = 5$ ,  $NO = OP$ , and  $OP = PQ$ .



Which of the following statements is **not** true?

A.  $NP = MN + PQ$

C.  $MQ = 3 \cdot PQ$

B.  $MP = OQ$

D.  $NQ = MP$

5) Given:  $\angle A$  is supp to  $\angle C$ .

$\angle C$  is comp to  $\angle B$ .

$\angle A = (3x + 12y)^\circ$

$\angle B = (8x - 3y)^\circ$

$\angle C = (9x + 2y - 4)^\circ$

Find:  $m\angle C$ .

**Answers:**

1) B

2) B

3) 80

4) D

5)  $66^\circ$

