Unit 1 – Geometric Fundamentals

Date	Target	Assignment	Done!
R 8-17	1.1a	1.1a Worksheet	
F 8-18	1.1b	Pre-Assessment / 1.1b Worksheet	
M 8-21	1.1	1.2a Worksheet	
T 8-22	1.2a	1.2b Worksheet	
W 8-23	1.2b	1.2c Worksheet	
R 8-24	1.2c	1.1-1.2 Review Worksheet	
F 8-25	1.1-1.2	1.1-1.2 Quiz	
M 8-28	1.3	1.3 Worksheet	
T 8-29	1.3	1.3 Quiz	
W 8-30	REV	Unit 1 Review	
R 9-1	TEST	Unit 1 Test	

<u>Target 1.1 - Demonstrate knowledge of core definitions include: point, line, segment, ray, plane,</u> angle, etc.

1.1 day 1 – Geometry essentials (Vocabulary) 1.1 day 2 - Geometry essentials (Constructions)

<u>Target 1.2 - Determine the length, midpoint, and ratios of segments</u> 1.2a – Lengths of a Segments Using Coordinates and Segement Addition 1.2b – Midpoint and Distance Formula

Target 1.3 – Discover patterns in a sequence of numbers and figures

Name:

1.1 – Geometry Essentials (Vocabulary) Target 1 – Demonstrate knowledge of core definitions include: point, line, segment, ray, plane, angle, etc.

Vocabulary	
VUCADUTATY (space provided to draw and create the various geometric words)	<u>Annotate Here</u> Other Vocab:
	<u>Postulate:</u> Statement that is accepted to be true without proof.
Point: occupies no or It is represented by a and such as A,	Volume, space, location, dot, capital letter
B, C, D, or E.	volume, space, localion, doi, capital letter
Line: can be defined by it passes	two points part, line, endpoints, \overline{CD}
Line segment: of a It has two such as C and D and is written	
<u>Ray</u> : a of a line that starts at a	
and extends forever in a certain direction.	portion, point
Plane: a figure that	
continues forever and can be defined by listing any points on it which are not on a	two dimensional, three, line
YOU TRY NOW! 1 Draw and label 3 points 2. What is \overline{AB} ? Draw it. 3. Draw and label an	<u>Collinear</u> :
 Draw and label 3 points that are collinear. What is AB? Draw it. Draw and label an example of a point. 	Three or more points on a straight line.
 <i>A</i> Draw a line and name is 'n.' <i>b</i> Draw and label 3 points that are collinear. Identify a point, a line and a segment. Use proper notation. 	
$\overline{\mathrm{VW}}$; $\overline{\mathrm{VK}}$; $\overline{\mathrm{VN}}$; $\overline{\mathrm{N}}$; $\overline{\mathrm{VN}}$; $\overline{\mathrm{N}}$; $\overline{\mathrm{N}}$; $\overline{\mathrm{N}}$; $\overline{\mathrm{N}}$	
J. ♣ 2. Line: ♦ ₽ 4.	

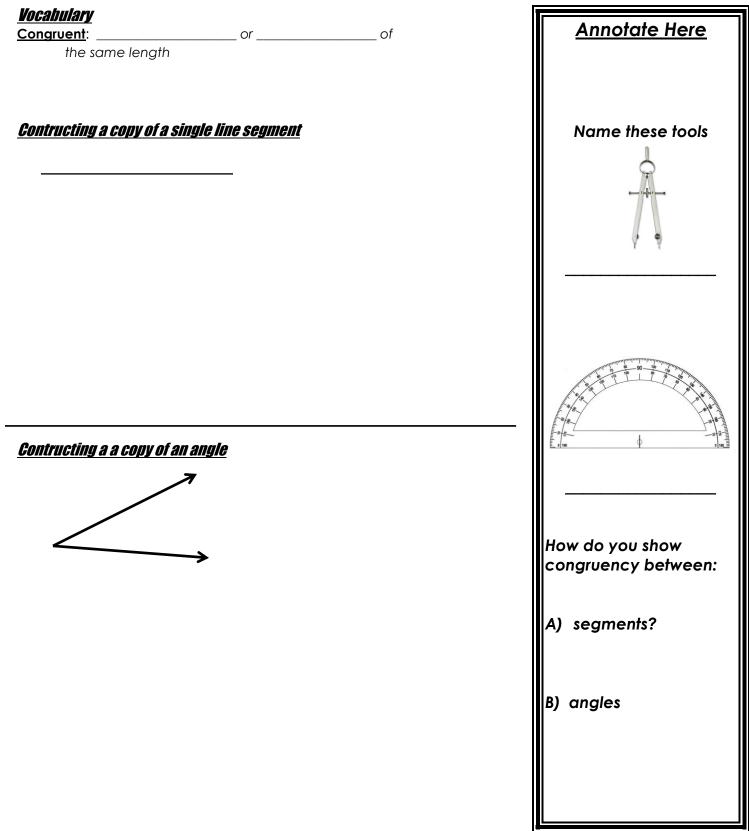
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Vocabulary (space provided to draw and create the various geometric words)	Geometry Honors
<u>Angle</u> : formed by with the same endpoint called the	<u>Annotate Here</u> two rays, vertex
Naming Angles	
1) Call the angle by its vertex.	Indicating Measurement of an angle
2) Use 3 points with the vertex in the middle	
Types of Angles	
0° < Angle measure < 90° 90° < Angle measure < 180°	
Angle measure = 180° Angle measure = 90°	Below write out what "m∠B" means.
Angle Addition Postulate If R lies within $\angle QTV$, then $m \angle QTR + m \angle RTV = m \angle QTV$	

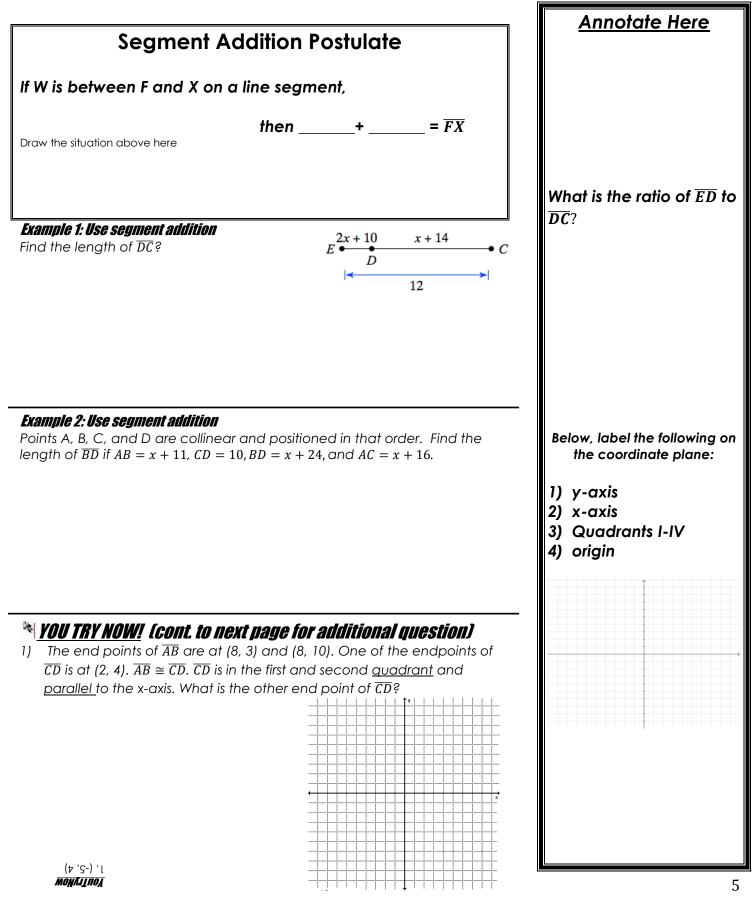
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1.1 – Geometry Essentials (Constructions)

Target 1 – Demonstrate knowledge of core definitions including: point, line, segment, ray, plane, angle, etc.



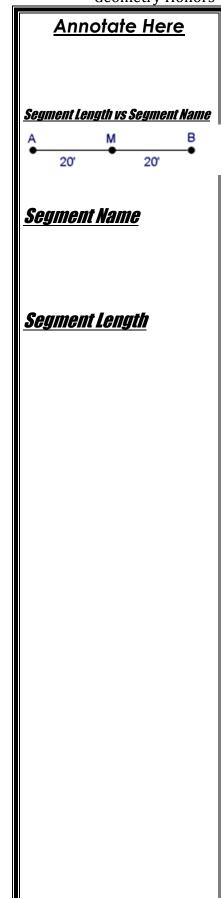
1.2a – Lengths of a Segments Using Coordinates and Segement Addition Target 2 – Determine the length, midpoint, and ratios of segments



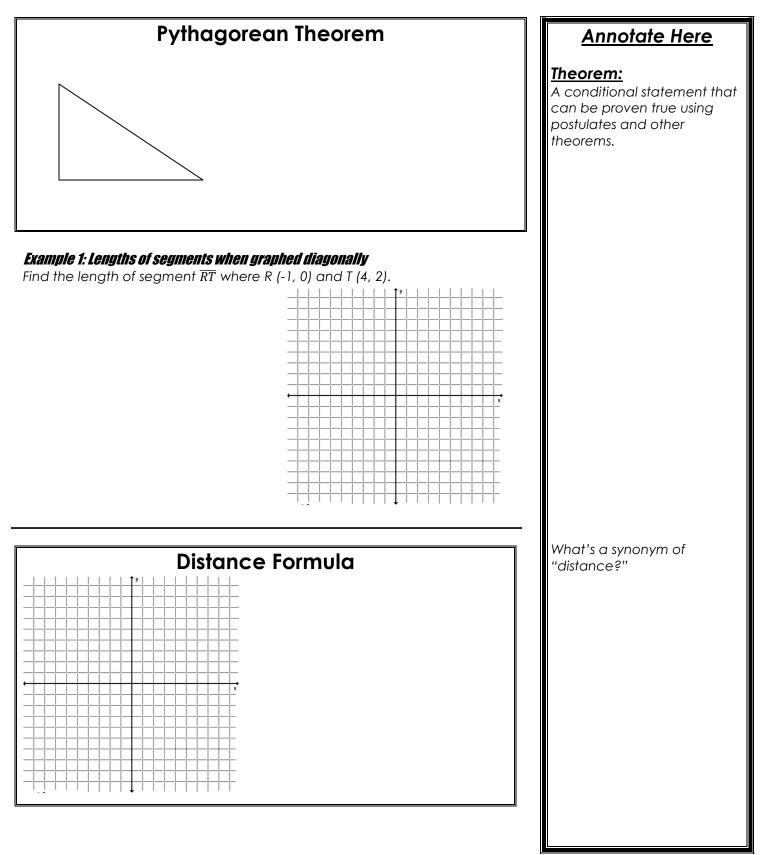
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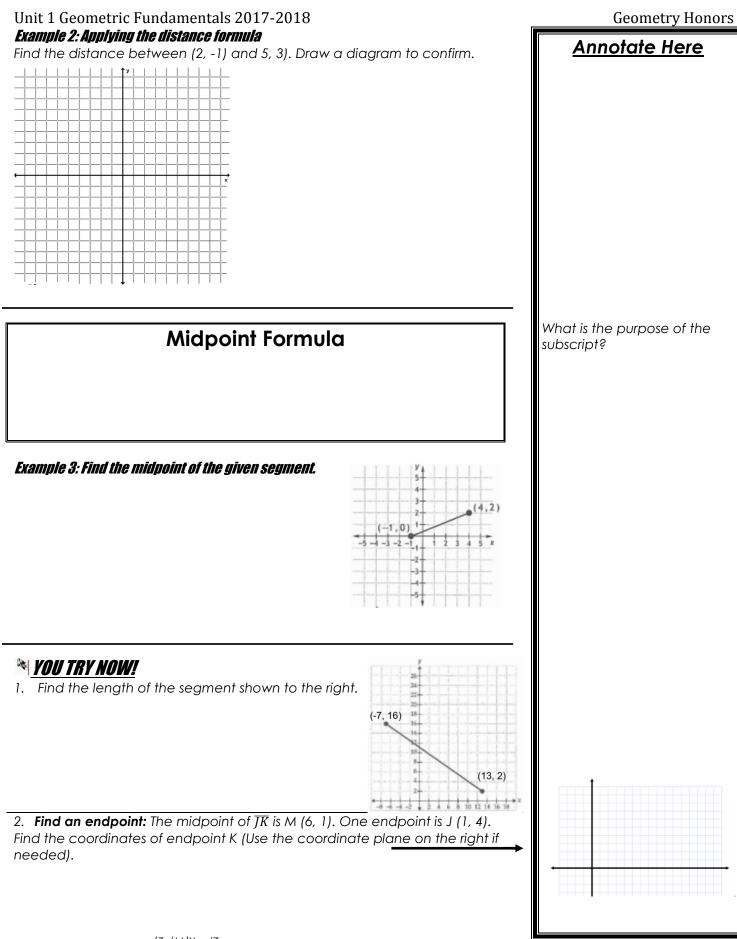
NOU TRY NOW! (cont.)

2) (HONORS) Points A, B, and C collinear and positioned in that order. Find largest possible length of \overline{AC} if $AB = 3x^2 - 2x + 8$, BC = 5, and $AC = 4x^2 - x + 7$. Geometry Honors



1.2b – Midpoint and Distance Formula Target 2 – Determine the length, midpoint, and ratios of segments

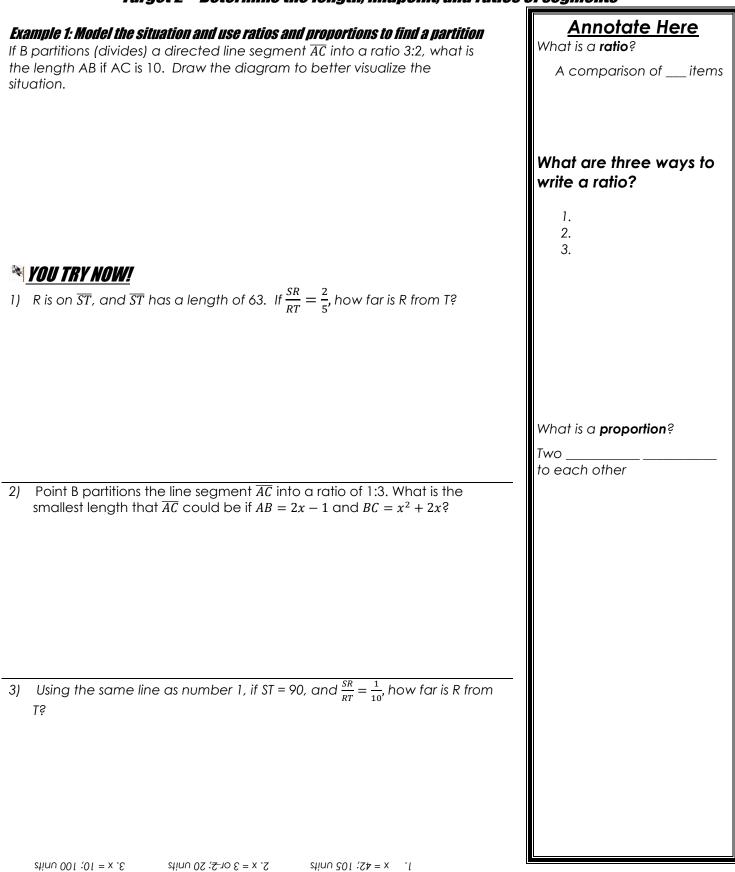




YouTryNom 1. $d = 2\sqrt{149}$ Units or ≈ 24.413 Units 2. K(11, -2)

1.2c – Ratios of Segments

Target 2 – Determine the length, midpoint, and ratios of segments



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Unit 1 Geometric Fundamentals 2017-2018

1.3– Using Inductive Reasoning to Discover Patterns in Numbers Target 3 – Discover patterns in a sequence of numbers and figures

Vocabulary	
Inductive Reasoning: a way to decide if something is or	<u>Annotate Here</u>
·	(true, false)
	(106, 1056)
Example 1: Make a conjecture for the next term in the sequence. Then,	Term: 1 2 3 4 5
determine the next number in each sequence.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2, 6, 22, 56, 114,	Second differences: 4 4 4 4
	1 st Difference = Linear Function
	2 nd Difference = Quadratic Function
	3 rd Difference - Cubic
Example 2: Make a conjecture for the next term in the sequence. Then,	
determine the next number in each sequence.	
14, 22,32, 44,	
Example 3: Determine the number of circles in the third iteration	
Original Iteration 1 Iteration 2 Iteration 3	
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