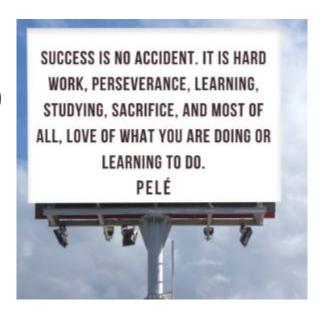
## Chapter 1 - Sections 4-6

Geometry (PD 1,2,4) 2024



#### Week Sept 23-27, 2024 Overview

Monday - Review

Tuesday - TEST on Chapter 1

Wednesday - NOTES for section 1 of Chapter 2 on Conditional Statements

Thursday - Notes for section 2 of Chapter 2 on Reasoning: inductive vs deductive

Friday - Practice Day/Makeup day

## NEXT set of slides are the review notes from Chapter 1

Geometry Ch. 1 Test - Tuesday 1/24 A angle 4 ABC 90 Complementary = 2 sum of 90° 180. Supplementary = 2 angles of 180 straight air = 2 angles of 180 AND form a not example vertical \/

KNOW

## Sections 1-3 learning targets for quiz



Anchor Descriptor - G.2.1.2 Solve problems using analytic geometry.

Eligible Content - G.2.1.2.1 Calculate the distance and/or midpoint between 2 points on a number line or on a coordinate plane.

## Sections 4-6 of Chapter 1 for Week -- Objectives/learning targets

1.4 Perimeter and Area in the Coordinate Plane	Find perimeters and areas of polygons in the coordinate plane.	I can classify and describe polygons.  I can find perimeters of polygons in the coordinate plane.  I can find areas of polygons in the coordinate plane.
1.5 Measuring and Constructing Angles	Measure, construct, and describe angles.	<ul> <li>I can measure and classify angles.</li> <li>I can construct congruent angles.</li> <li>I can find angle measures.</li> <li>I can construct an angle bisector.</li> </ul>
1.6 Describing Pairs of Angles	Identify and use pairs of angles.	<ul> <li>I can identify complementary and supplementary angles.</li> <li>I can identify linear pairs and vertical angles.</li> <li>I can find angle measures in pairs of angles.</li> </ul>

#### Geometry Standard ID:

Anchor Descriptor - G.1.2.1 Recognize and/or apply properties of angles, polygons and polyhedra.

#### MONDAY - section 1.4 perimeter and area

QUIZ after notes checked together to form a packet to use on quiz if period 1 or 4 QUIZ

THEN students work on problems from

handout EXTRA PRACTICE 1.4

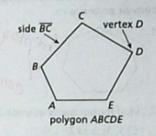
Black practice book pg. 7 Extra Practice - finish for homework.

#### 1.4 Reteach

#### Key Idea

#### **Polygons**

In geometry, a figure that lies in a plane is called a plane figure. Recall that a *polygon* is a closed plane figure formed by three or more line segments called *sides*. Each side intersects exactly two sides, one at each *vertex*, so that no two sides with a common vertex are collinear.



Number

of sides

Type of

polygon

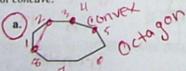
Triangle Quadrilateral

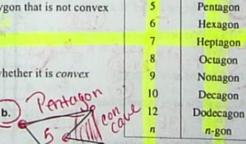
The number of sides determines the type of polygon, as shown in the table. You can also name a polygon using the term n-gon, where n is the number of sides. For instance, a 14-gon is a polygon with 14 sides.

A polygon is convex when no line that contains a side of the polygon contains a point in the interior of the polygon. A polygon that is not convex is concave.

#### **EXAMPLE** Classifying Polygons

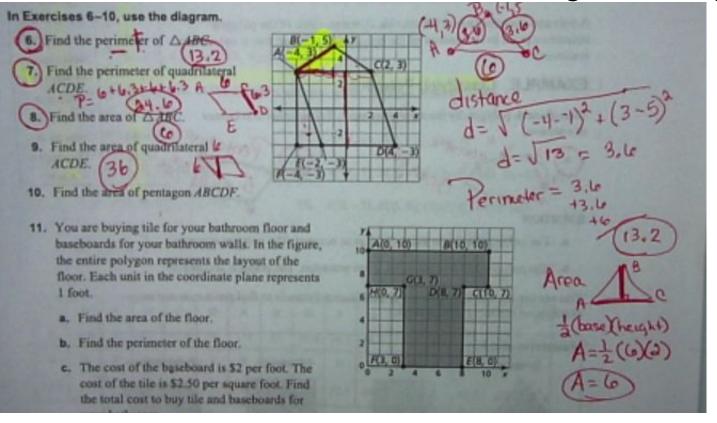
Classify each polygon by the number of sides. Tell whether it is convex or concave.





#### Terms to know

Use DISTANCE formula for slant lengths from points

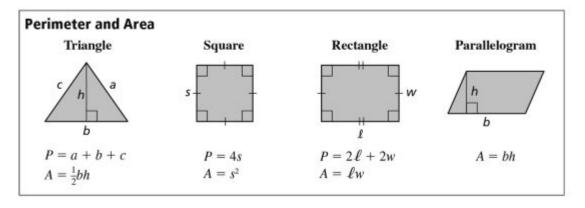


Perimeter means add lengths around it.

Area means covering so use formulas for "square" coverage

## Distance formula use for the LENGTH between points graphed

You can use the formulas below and the Distance Formula to find perimeters and areas of polygons in the coordinate plane.



## Tuesday - Section 5 Chapter 1 on Angle Addition

Use pg 8 of the Black Practice Book to guide examples as take notes.

The angle is NAMED by the direction of three points and vertex in middle.

The angles have classifications: acute, right, obtuse, and straight.

Angles, like segments, can be added by the common ray side and vertex.

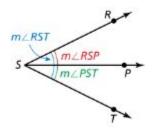
#### **Postulate**

#### 1.4 Angle Addition Postulate

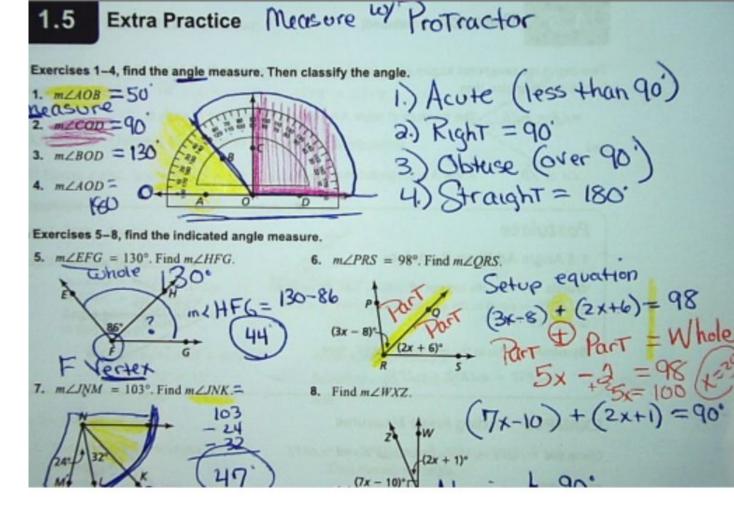
**Words** If P is in the interior of  $\angle RST$ , then the measure of  $\angle RST$  is equal to the sum of the measures of  $\angle RSP$  and  $\angle PST$ .

**Symbols** If P is in the interior of  $\angle RST$ , then

 $m \angle RST = m \angle RSP + m \angle PST$ .



# ANGLE intro.



#### Wednesday - section 6 from chapter 5 on additional terms

#### Angle PAIRS have relationships based on the term

- Adjacent angles
- Linear Pair \*\*\*special term for adjacent supplementary angles
- Supplementary angles
- Complementary angles
- Vertical angles \*\*\*\* show how they are congruent and will be the main used on later in proofs.

Use Black practice book pg 9 for examples as well as handouts.

### THURSDAY Plan for practice work.

Finish 1.5 Extra Practice Handout #9,10

Do 1.5 Reteach pg 36 Handout # 1-3, 4(equation work), 5 --- Mrs. Pletcher will guide you through

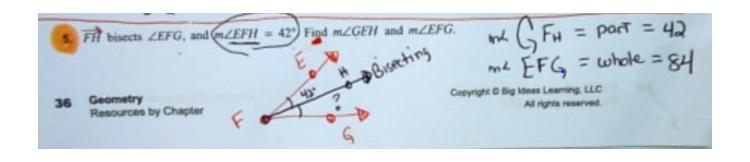
Finish 1.5 PUZZLE time -pg 38 ALL (#5, 8 Need separate work paper for equation work to find the value of x and Mrs. Pletcher can show on the board)

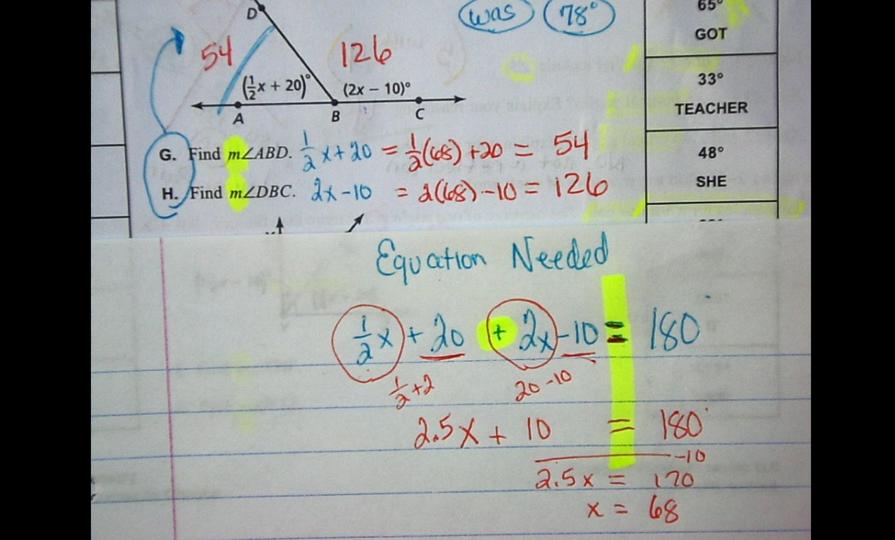
1.6 Puzzle time Handout pg 46 G-J (Need separate work paper for equation work to find the value of x and Mrs. Pletcher can show on the board)

Black Practice Book pg 9 & 11

#### ANGLE ---- bisect

## means 2 equal parts



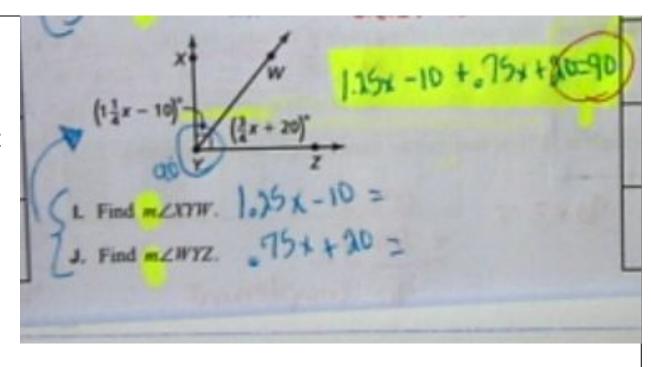


If algebra needed, show the setup equation of the diagram relationship.

Solve,

Plug value back in

Clearly answer request



## Friday Black Practice Book Assignments:

Pg 9: Section 1.5 DO All problems (8)

Pg 10: Review do only # 1,4,6,8

Pg 11: Section 1.6 DO all problems

(10)

Pg 12: Review do only # 1,2,3,8,9

TEST to review so do the following on practice test

pg. 15-18

# 3, 5, 6, 13, 14, 17, 18, 21