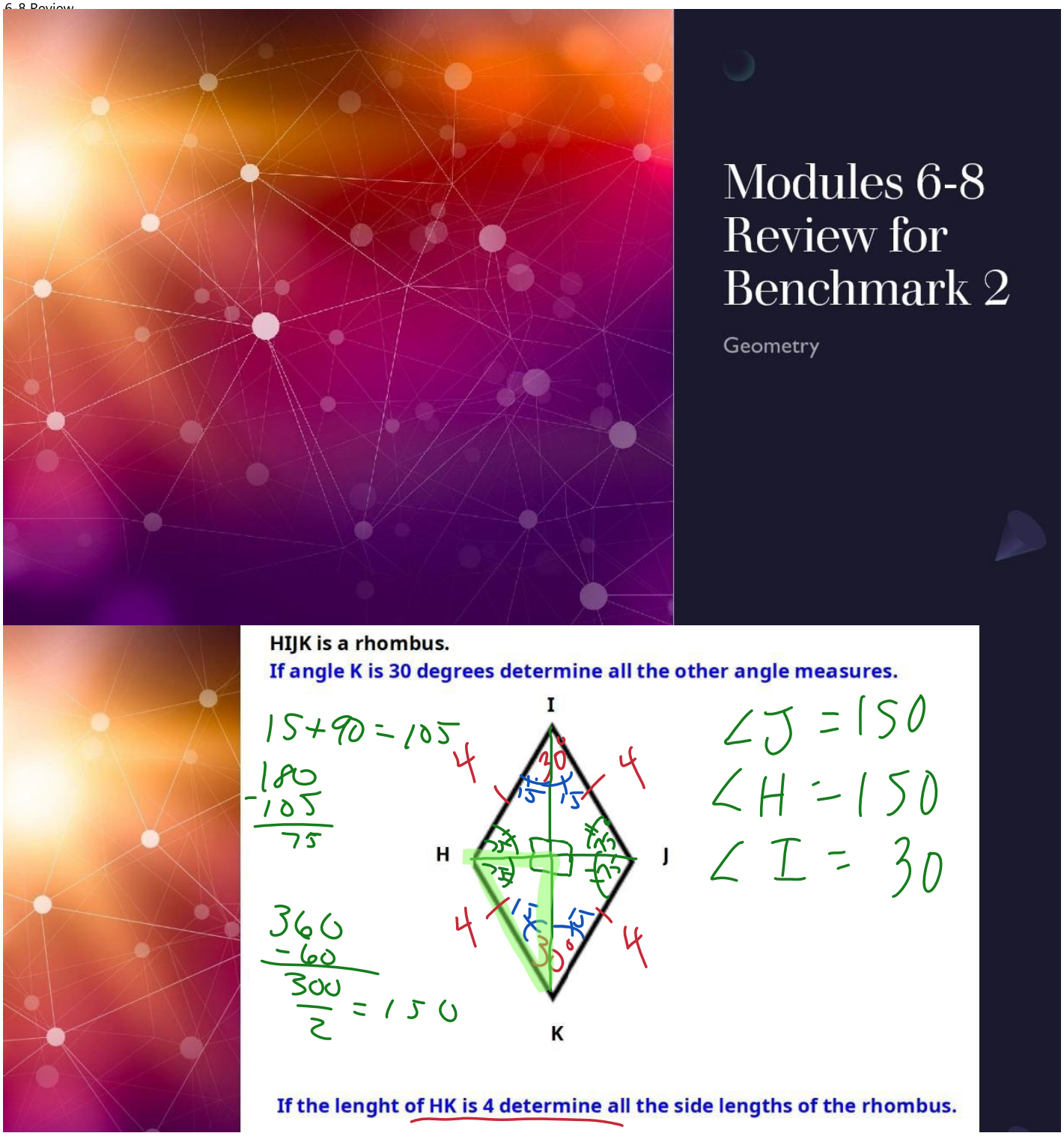
Modules 6-8 Review for Benchmark 2

Thursday, March 9, 2023 6:10 PM

Click Link Below for Interactive Pear Deck Powerpoint

https://app.peardeck.com/student/tdwignonb

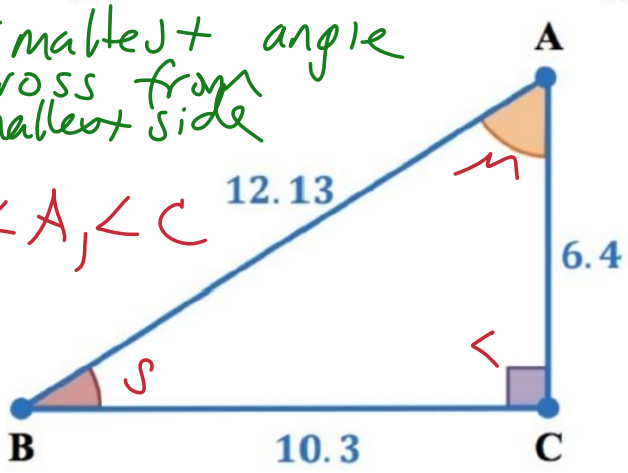
Modules 6-8 Review



Order the angles in order from smallest to largest.

the smallest angle is across from the smallest side

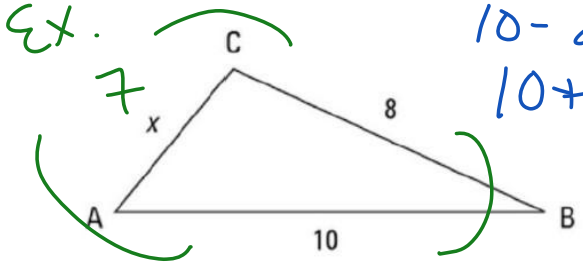
$\angle B, \angle A, \angle C$



What is the possible range of values for the length of AC?

2 sides > 3rd

Ex.



10 − 8 = 2

10 + 8 = 18

$\boxed{2} < x < \boxed{18}$

Determine the length of side AF and AB.

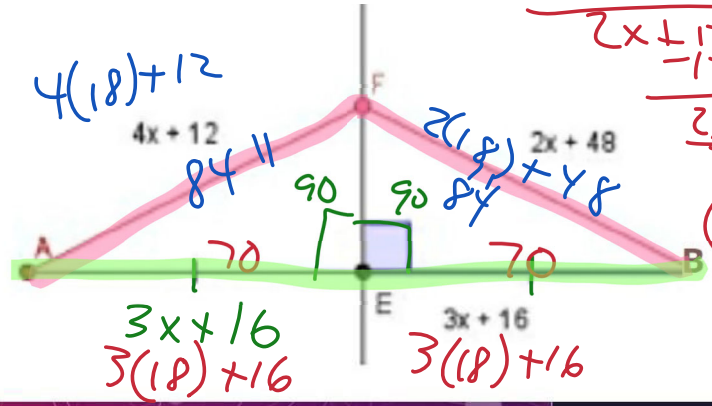
84

perpendicular bisector

70 + 70 = 140

4x + 12 = 2x + 48

−2x −8x

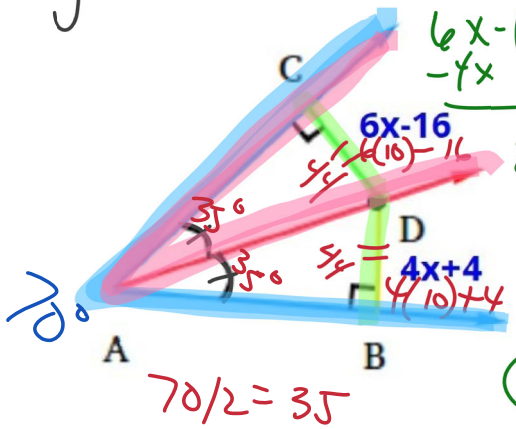


$4(18)+12$ 84 11 90 90 84 $2(18)+48$ 70 70 $3x+16$ $3(18)+16$ $3(18)+16$

$2x+12=48$ $-12\ \ -12$ $\frac{2x}{2}=\frac{36}{2}$ $x=18$

Determine the length of CD. 44

angle bisector



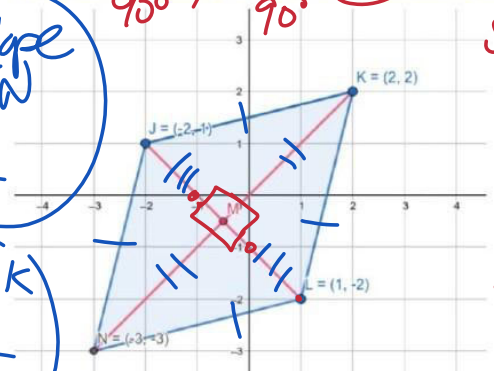
$6x-16=4x+4$ $-4x\ \ -4x$ $2x-16=4$ $+16\ +16$ $\frac{2x}{2}=\frac{20}{2}$ $x=10$

$6(10)-16$ $4(10)+4$ 44 44 $35°$ $35°$ $70°$ $70/2=35$

If the measure of <CAB is 70 degrees determine the measure of <DAC. 35°

Which of the following shape is graphed below?

A) rectangle B) square C) rhombus D) trapezoid



90° 90°

Slope JN $\frac{4}{1}$

(JK) $\frac{1}{1}$

Slope JL & NK $-\frac{1}{1}$ $\frac{1}{1}$

diagonals are neg. reciprocals ⊥ 90°

⊥ not neg. recip.

What are the properties of this shape? opp // opp;
*specifically what do you know about the sides, angles, and the diagonals? bisect each other ⊥

Kite CDAB ~ Kite TQPR

What is the value of x.

$\frac{4}{(2x+4)} = \frac{10}{35}$

$35(4) = 10(2x+4)$

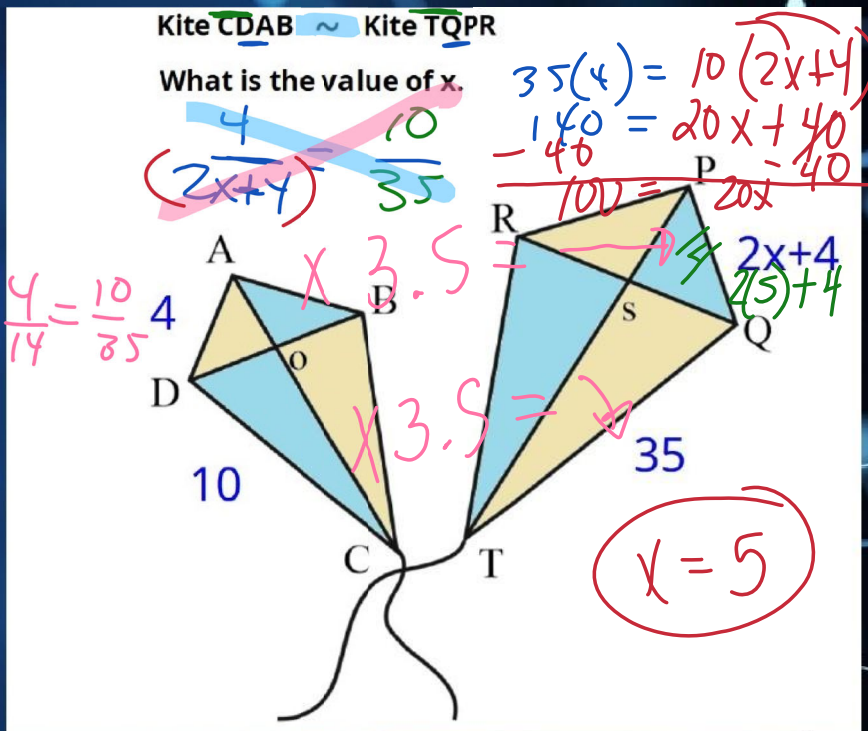
$140 = 20x + 40$

$-40 \quad -40$

$100 = 20x$

$\frac{4}{14} = \frac{10}{35}$

$\times 3.5 = \times 3.5$



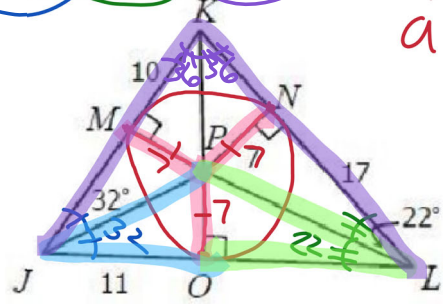
$x = 5$

Find the measure of the following angles:

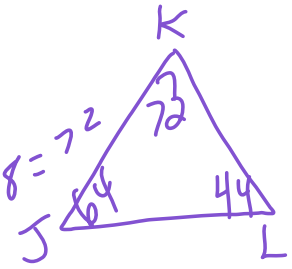
<PJO <OLP <JKL

32 22 72

incenter
angle bisectors



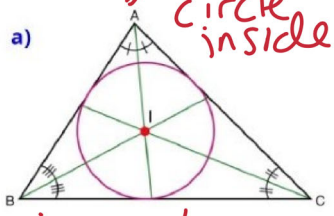
64
+44
108
180-108 = 72



Find the lenghts of MP and PO.

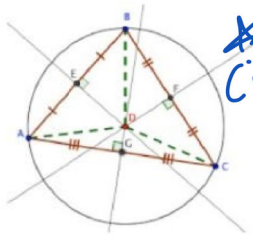
7 7

Match the following points of concurrency:
Incenter, Centroid, Orthocenter, Circumcenter

a) 

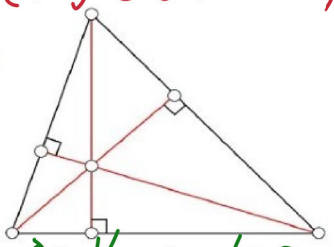
circle inside

incenter (angle bisectors)

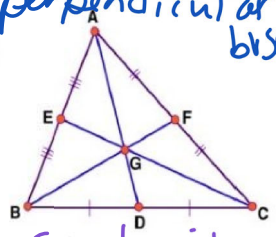
b) 

circle outside

circumcenter (perpendicular bisectors)

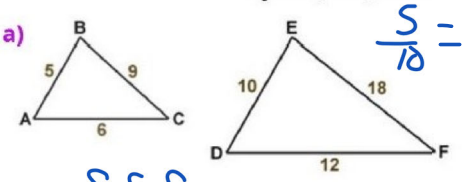
c) 

orthocenter (altitudes)

d) 

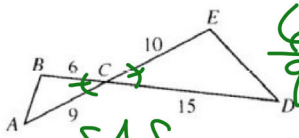
centroid (medians)

Determine if each set of triangles is similar by SSS, SAS, or AA similarity.

a) 

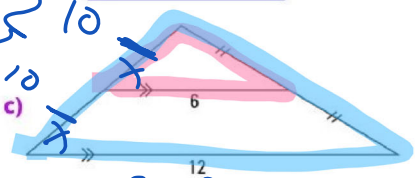
$\frac{5}{10} = \frac{9}{18}$

SSS

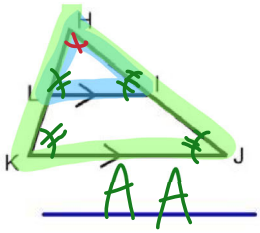
b) 

$\frac{6}{9} = \frac{10}{15}$

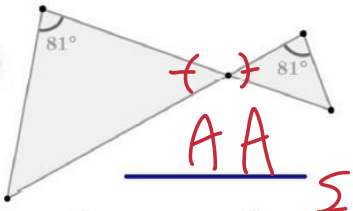
SAS

c) 

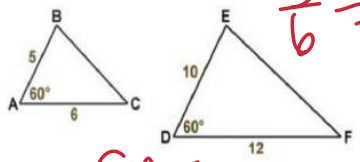
SAS

d) 

AA

e) 

AA

f) 

$\frac{5}{6} = \frac{10}{12}$

SAS