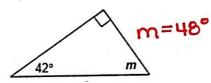
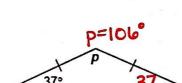
True or false (5 questions).

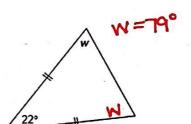
corresponding

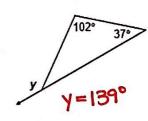
- 1.) The capital letters CPCTC are an abbreviation for the phrase, "congruent parts of congruent triangles are congruent." False
- 2.) In an isosceles triangle, the perpendicular bisector of the base is also the same segment as the angles bisector of the vertex angle. The
- 3.) The base angles of an isosceles triangle are always acute. True
- 4.) An exterior angle of a triangle is greater than each of the interior angles. True
- 5.) The sum of the measures of the three angles of an obtuse triangle is greater than the sum of the measures of the three angles of an acute triangle. Folse
- 6.) It is possible for an obtuse triangle to have three congruent sides. False
- 7.) A triangle with all the sides equal in measure must be an acute triangle. True
- 8.) If a triangle has two angles of equal measure, then the third angles is obtuse. False

Find the missing value in each triangle (4 questions).



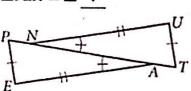






If possible, name the congruent triangles. State the conjecture that supports the congruence statement. If you cannot show the triangles to be congruent from the information given, write "cannot be determined." (6 questions)

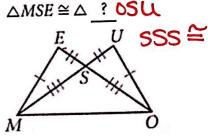
 $\triangle PEA \cong \triangle$?



cannot be determined

 $\triangle TOP \cong \triangle$

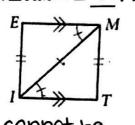




Chapter 4 Test Review Packet

Name:

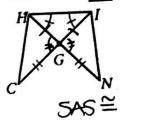
 $.\triangle TIM \cong \triangle ?EMJ$



cannot be determined $\triangle TRP \cong \triangle$? APR



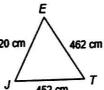
ΔCGH≅Δ ? NGI



Answer the questions below (The figures below are not drawn to scale.) (2 questions)

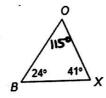
Consider ΔJET at the right.

- a. Name the largest angle. $\angle J$ 420 cm
- b. Name the smallest angle. LT

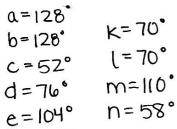


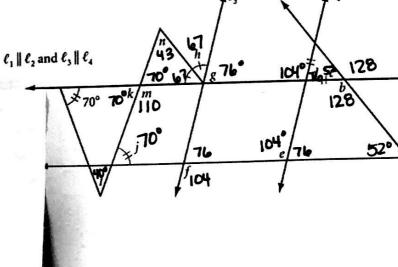
Consider $\triangle BOX$ at the right.

- a. Name the shortest side. OX
- b. Name the longest side. BX



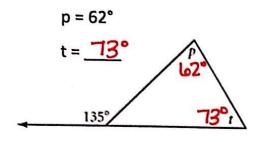
Find the measure of each lettered angles below. (1 question) $\mathcal{A}\ell$.

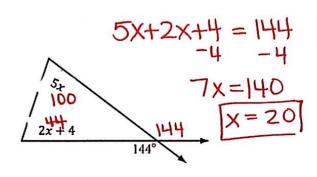




Name:

Find the missing measures below (1 question).





Answer the questions below (2 questions).

Is it possible to draw a triangle with sides of 5 ft, 6 ft, and 12 ft? Explain how you know and be sure to show your work. NO, 5+6>12 doesn't work

Is it possible to draw a triangle with sides of 3.5 cm, 4.5 cm, and 7 cm? Explain how you know and be sure to

3.5+4.5 > 7 " show your work. 4.5+7 > 3.5 !!

3.5+7>4.50

Yes, each sum is greater than the third side.

If 54 and 48 are the lengths of two sides of a triangle, what is the range of possible values for the length of the third side? X4102

If 14 and 22 are the lengths of two sides of a triangle, what is the range of possible values for the length of the third side?

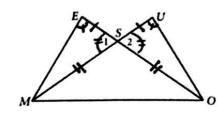
Name:

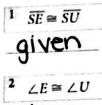
Provide each missing conclusion or justification in the flow chart proof. (1 question).

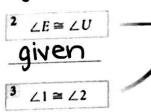
Given: $\overline{SE} \cong \overline{SU}$ $\angle E \cong \angle U$

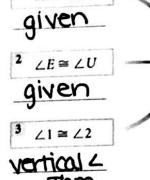
Show: $\triangle MOS$ is isosceles

Flowchart Proof



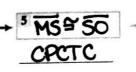






ASEM ≅ ASUO $\Delta \stackrel{?}{=} \Delta \stackrel{?}{=}$

ASA Congruence Conjecture



⁴ ΔMOS is isosceles Def. of isosceles

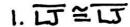
Write the complete proof. (2 question).

Given: ∠CLJ ≈ ∠SLJ

 $LC \cong LS$

Prove: $\angle C \cong \angle S$

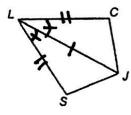
- Conclusions O. LCLJ Y LSLJ
 - TC 2 IS



2. ACLJ≅ASLJ

3. LC = LS

- Justifications
- O. Given
- 1. Reflexive
- 2.5AS ≃
- 3 CPCTC



Given: ZE // BR

 $\angle E \cong \angle R$

 $ZE \cong BR$ Prove:

- Conclusions O. ZE / BR
 - LEZLR
- 1.42 = 44
- 2. ZB ZB
- 3. AZEB ≅ ABRZ

4. ZE = BR

- **Justifications**
- a. Given
- 1. AIAThm.
- 2. Reflexive
- 3. AAS≅
- 4. CPCTC

