unit 3 Review (Triangle

Name: Ke

What is $m \angle A$?



If $\triangle PQR \cong \triangle STU$, which of the following statements are ALL true?

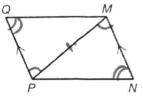
$$P(A) \stackrel{.}{\angle P} \cong \angle S, \ \overline{PQ} \cong \overline{TU}, \ \Delta RQP \cong \Delta UTS$$
 B) $\angle R \cong \angle U, \ \overline{PR} \cong \overline{SU}, \ \Delta QPR \cong \Delta TUS$

B)
$$\angle R \cong \angle U$$
. $\overrightarrow{PR} \cong \overrightarrow{SU}$. $\triangle QPR \cong \triangle TUS$

$$(\widehat{C})$$
 $\angle Q \cong \angle T$, $\overrightarrow{PR} \cong \overline{SU}$, $\triangle QRP \cong \triangle TUS$ $D \angle Q \cong \angle T$, $\overrightarrow{PQ} \cong \overline{TU}$, $\triangle RQP \cong \triangle STU$

$$D \angle Q \cong \angle T$$
, $\overline{PQ} \cong \overline{TU}$, $\triangle RQP \cong \triangle STU$

- What additional information is needed to prove $\triangle MNP \cong \triangle PQM$ by AAS?
 - A) $\angle N \cong \angle Q$
- ∠MPN ≅ ∠MPQ
- C) MQ = PN
- $\overline{MN} \cong \overline{PQ}$ D)

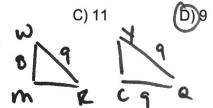


Which CANNOT be used to prove $\triangle MNK \cong \triangle KLM$?



- A) SAS
- AAS
- C) ASA
- HL

- In the figure, H is the midpoint of \overline{EK} and \overline{FJ} . What reason can be used in a proof to show $\overline{EF} \cong \overline{JK}$?
 - * A) AAS
- B) Def. of bisects
- C) ASA
- D) CPCTC
- E) Vertical Angles
- Suppose $\triangle MWR \cong \triangle CYQ$, MW = 8, WR = 9, and CQ = 10. What is YQ?
 - A) 10'
- B) 8



Name:

Unit 2 Assessment • Right Triangle Trigonometry

SACHTA Review

1. If $\sin 22.6^\circ \approx \frac{10}{26}$ and $\cos 22.6^\circ \approx \frac{24}{26}$.



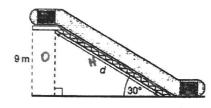
B.°
$$\tan 22.6^\circ = \frac{14}{24}$$
 10

C.
$$\tan 22.6^{\circ} \approx \frac{24}{10}$$

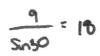


2. Which equation is true?

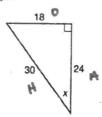
3. An escalator lifts people to the second floor of a store, which is 9 meters above the first floor. The escalator rises at a 30° angle. What is d, the total distance a person travels from the bottom of the escalator to the top of the escalator?



- A. 4.5 meters
- B. 9√2 meters
- C. 9√3 meters
- 18 meters



4. Which of the following is a trigonometric ratio for this triangle?

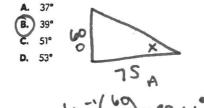


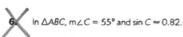
B.
$$\cos x = \frac{18}{34}$$

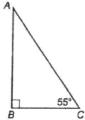
$$c$$
 $tan x = \frac{2}{16}$

D.
$$tan x = \frac{16}{2}$$

5. At a certain time of day, a building that is 60 feet tall casts a 75-foot shadow. What is the approximate angle of elevation of the sun when this shadow is cast? Give the answer to the nearest degree.







What is $m \angle A$ and cosine of $\angle A$?

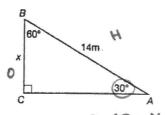
A.
$$m\angle A = 35^{\circ}$$
 and $\cos A \approx 0.18$.

B.
$$m \angle A = 35^{\circ}$$
 and $\cos A \approx 0.82$.

C.
$$m\angle A = 45^{\circ}$$
 and $\cos A \approx 0.18$.

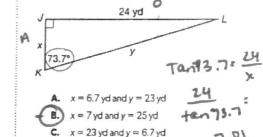
D.
$$m\angle A = 45^{\circ}$$
 and $\cos A \approx 0.82$.

What is x, the length of BC in AABC?



- A. 7 meters
- B. 7√3 meters
- 145in30=7
- D. 14√3 meters

Which shows the approximate lengths of sides x and y of $\Delta |KL|$?



9. In a right triangle, one of the acute angles measures x and the other acute angle measures y. If $\sin x = \frac{11}{61}$ and $\cos x = \frac{60}{61}$, what are the values of cos y and tan y?

A.
$$\cos y = \frac{11}{61}$$
 and $\tan y = \frac{11}{60}$

D. x = 25 yd and y = 7 yd

8.
$$\cos y = \frac{60}{61}$$
 and $\tan y = \frac{11}{60}$

C.
$$\cos y = \frac{11}{61}$$
 and $\tan y = \frac{60}{11}$

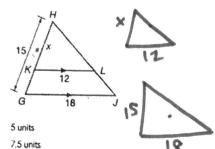
D.
$$\cos y = \frac{60}{61}$$
 and $\tan y = \frac{60}{11}$



unit 1 & 4 Review (Similarity & Transformations)

9)

In ΔGHJ , \overline{KL} was drawn parallel to \overline{GJ} to create ΔNHL . What is the value of x?



- 10 units
 - 12 units

10)

MO and NR intersect at point P. Can it. be shown that MNP QRP?

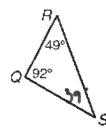


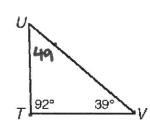


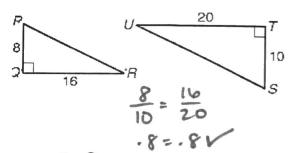
- Yes, by the AA Posturate



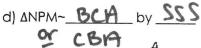
11) Tell which similarity proves the figures are similar (if they are) and write a similarity statement.

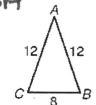


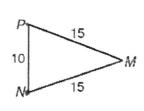




C) AGHJ~ GMK by AA







unit 7 Review

Geometry: EOC Review

Circles

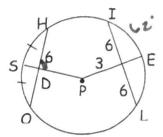
Name

1. Use the figure to answer the following. Point P is the center of the circle. $mIE=62^\circ$

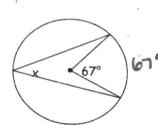
$$a.m\overline{OD} =$$

a.
$$m\overline{OD} =$$
 c. $m\angle PDH =$ 90

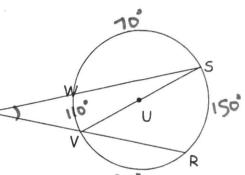
b. mEL=
$$00$$
 d. $\overline{mPD} = 3$



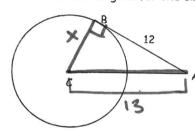
Find the measure of the angle marked x.



If \overline{VS} is a diameter for \odot U, mRV = 30 ° and mSW = 70°, find m \angle T.

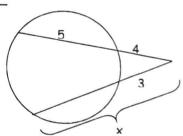


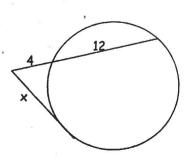
Find the length of the radius of the circle if \overline{AB} is a tangent for the circle. (Show work.)

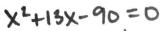


$$\overline{AC} = 13$$

Find the length of x in the following figures. Show how you set up your problems.









$$X^{2}+13X-90=0$$
 (X+18) (X-5) $X=5$ 18 -5

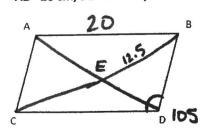
unit 5 & 9 Review

Quadrilaterals/Equations of Circles

Name:	Date:	
1) In parallelograms, opposite sides are	and diagonals _	bisect
2) In a Rhombus, diagonals biscct	opposite angles.	
2) In a Rhombus, diagonals 3) In quadrilateral ABCD, two consecutive at the consecutive and applicated applications.	ngles are congruent. This quadrilate	eral is a rectangle
Find the measure of each indicated angle:		square
4) $C_{120^{\circ}}$ $C_{95^{\circ}}$ $C_{85^{\circ}}$ $C_{120^{\circ}}$	5) F 86°	$ \begin{array}{c c} & 11x-2 \\ \hline & 11x-2$
Solve each parallelogram for the indicated		
9) Find the missing endpoint if the midpoint $2 \cdot 4 = \frac{1+x}{2} \cdot 2 = \frac{1+x}{2}$ 10) Partition segment \overline{AB} by the given ratio: $AB = \frac{1+x}{2} \cdot 2 = 1+$	$Z = 100^{3}$ $X = 100^{3}$	1,-6) 1,-7 1

11) In $\Box ABCD$, \overline{AD} & \overline{CB} intersect to form point E.

AB= 20 cm, BE=12.5 cm, and $\it m \angle$ BDC=105. Find each measure.



- a) BC 25
- d) m∠DBA 75°
- b) BD OMIT
- e) m∠DCA 75
- c) CET 12.5
- f) *m*∠BAC |OS*