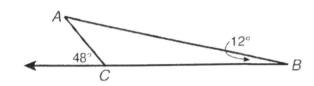
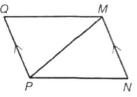
# unit 3 Review (Triangle

Name: Date:

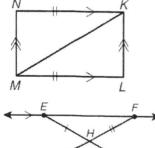
1) What is  $m \angle A$ ?



- 2)\_\_\_\_\_ If  $\triangle PQR \cong \triangle STU$ , which of the following statements are ALL true?
  - A)  $\angle P \cong \angle S$ ,  $\overline{PQ} \cong \overline{TU}$ ,  $\triangle RQP \cong \triangle UTS$  B)  $\angle R \cong \angle U$ ,  $\overline{PR} \cong \overline{SU}$ ,  $\triangle QPR \cong \triangle TUS$
  - C)  $\angle Q \cong \angle T$ ,  $\overline{PR} \cong \overline{SU}$ ,  $\triangle QRP \cong \triangle TUS$  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)  $\angle N \cong \angle Q$
- $\angle MPN \cong \angle MPQ$ B)
- C) MQ ≅ PN
- $\overline{MN} \cong \overline{PQ}$ D)



- Which CANNOT be used to prove  $\triangle MNK \cong \triangle KLM$ ?
  - A) SAS
- AAS B)
- C) ASA
- D) HL

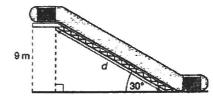


- In the figure, H is the midpoint of  $\overline{EK}$  and  $\overline{FJ}$ . What reason can be used in a proof to show EF ≅ JK?
  - A) AAS
- B) Def. of bisects
- C) ASA
- D) CPCTC
- E) Vertical Angles
- Suppose  $\triangle MWR \cong \triangle CYQ$ , MW = 8, WR = 9, and CQ = 10. What is YQ?
  - A) 10
- B) 8
- C) 11
- D) 9

### Unit 2 Assessment • Right Triangle Trigonometry

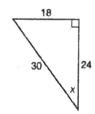
### SACHTA Review

- 1. If  $\sin 22.6^\circ = \frac{10}{26}$  and  $\cos 22.6^\circ = \frac{24}{26}$ , which is true?
  - **A.**  $\tan 22.6^{\circ} \approx \frac{10}{24}$
  - **B.**  $\tan 22.6^{\circ} = \frac{14}{24}$
  - **C.**  $\tan 22.6^{\circ} \approx \frac{24}{10}$
  - D. tan 22.6° ≈ 26
- 2. Which equation is true?
  - A. cos 10° = tan 10°
  - B. cos 10° = cos 80°
  - C. sin 80° = tan 80°
  - **D.**  $\sin 80^{\circ} = \cos 10^{\circ}$
- 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?



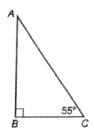
- A. 4.5 meters
- B. 9√2 meters
- C. 9√3 meters
- D. 18 meters

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

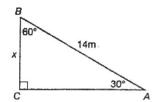


- **A.**  $\cos x = \frac{24}{30}$
- **B.**  $\cos x = \frac{16}{24}$
- **C.**  $\tan x = \frac{24}{18}$
- **D.**  $\tan x = \frac{18}{30}$
- 5. At a certain time of day, a building that is 60 feet tall casts a 75-foot shadow. What is the approximate angle of elevation of the sun when this shadow is cast? Give the answer to the nearest degree.
  - A. 37°
  - B. 39°
  - C. 51°
  - D. 53°

In  $\triangle ABC$ ,  $m \angle C = 55^{\circ}$  and  $\sin C \approx 0.82$ .

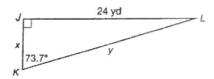


- What is m A and cosine of A?
- A.  $m\angle A = 35^{\circ}$  and  $\cos A \approx 0.18$ .
- 8.  $m\angle A = 35^{\circ}$  and  $\cos A \approx 0.82$ .
- **C.**  $m\angle A = 45^{\circ} \text{ and } \cos A \approx 0.18.$
- **D.**  $m\angle A = 45^{\circ}$  and  $\cos A \approx 0.82$ .
- What is x, the length of BC in △ABC?



- A. 7 meters
- B. 7√3 meters
- C. 28 meters
- D. 14√3 meters

8. Which shows the approximate lengths of sides x and y of Δ/KL?

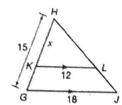


- **A.** x = 6.7 yd and y = 23 yd
- **B.** x = 7 yd and y = 25 yd
- **c.** x = 23 yd and y = 6.7 yd
- **D.** x = 25 yd and y = 7 yd
- 9. In a right triangle, one of the acute angles measures x and the other acute angle measures y. If  $\sin x = \frac{11}{61}$  and  $\cos x = \frac{60}{61}$ , what are the values of  $\cos y$  and  $\tan y$ ?
  - **A.**  $\cos y = \frac{11}{61}$  and  $\tan y = \frac{11}{60}$
  - **B.**  $\cos y = \frac{60}{61}$  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  $\Delta GH_j^r$ ,  $\overline{KL}$  was drawn parallel to  $\overline{G_j}$  to create  $\Delta XHL$ . What is the value of x?



- A. 5 units
- **8.** 7.5 units
- C. 10 units
- D. 12 units

10)

A'O and NR intersect at point P. Can it be shown that MNP QEP?

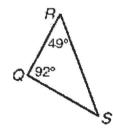


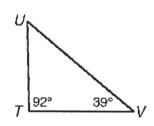
- A. Yes, by the AA Posturate
- B. Yes, by the SAS Theorem.
- C. Yes, by the SSS Theorem.
- D. No, the information given is not sufficient to determine if the triangles are similar.

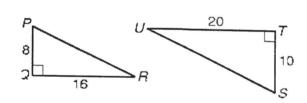
11) Tell which similarity proves the figures are similar (if they are) and write a similarity statement.

a) ΔTVU~\_\_\_\_\_ by \_\_\_\_

b) ΔQPR~\_\_\_\_\_ by \_\_\_\_

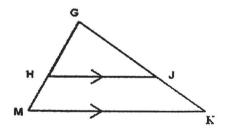


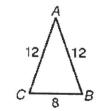


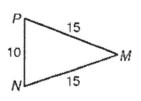


c) AGHJ~\_\_\_\_\_ by \_\_\_\_

d) ΔNPM~\_\_\_\_\_ by \_\_\_\_







## unit 7 Review

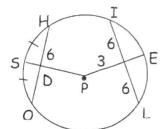
Geometry: EOC Review

Circles

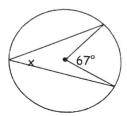
Name

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

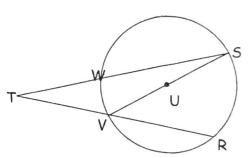
- a.  $m\overline{OD} =$  \_\_\_\_\_ c.  $m\angle PDH =$  \_\_\_\_\_
- b. mEL= \_\_\_\_ d.  $\overline{mPD}$  = \_\_\_\_



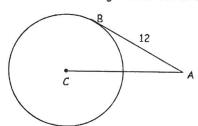
Find the measure of the angle marked x.



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

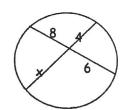


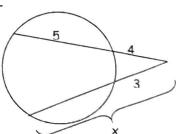
Find the length of the radius of the circle if  $\overline{AB}$  is a tangent for the circle. (Show work.)

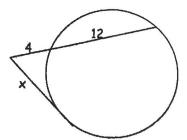


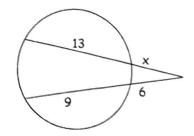
$$\overline{AC} = 13$$

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









### unit 5 & 9 Review

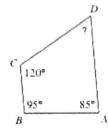
#### Quadrilaterals/Equations of Circles

Name:\_\_\_\_\_\_ Date:\_\_\_\_\_

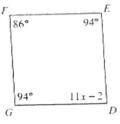
- 1) In parallelograms, opposite sides are \_\_\_\_\_\_ and diagonals \_\_\_\_\_\_
- 2) In a Rhombus, diagonals \_\_\_\_\_\_ opposite angles.
- 3) In quadrilateral ABCD, two consecutive angles are congruent. This quadrilateral is a \_\_\_\_\_\_

Find the measure of each indicated angle:

4)

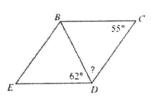


5)

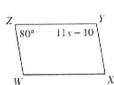


Solve each parallelogram for the indicated measure

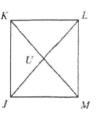
6)



71

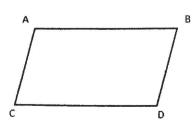


8) KU = 3x + 3 UM = 4x - 4; x = ?



- 9) Find the missing endpoint if the midpoint is (4,-2) and the other endpoint is (1,-6)
- 10) Partition segment  $\overline{AB}$  by the given ratio: A (6,-4) & B (-10,2); Ratio: 2:5
- 11) In  $\Box ABCD$  ,  $\overline{AD}$  &  $\overline{CB}$  intersect to form point E.

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



a) BC

d)  $m \angle DBA$ 

b) BD

e)  $m \angle DCA$ 

c) CE

f)  $m \angle BAC$