



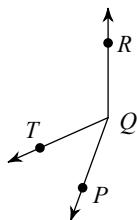
FRANKLIN LEARNING CENTER

**616 N 15th St
Philadelphia, PA 19130**

SUMMER WORK PACKAGE

**Multiple-choice questions
designed for Geometry graduates.**

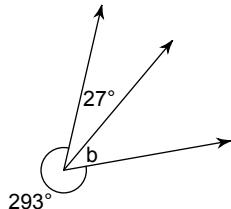
- 1) Find $m\angle PQR$ if $m\angle PQT = 46^\circ$
and $m\angle TQR = 114^\circ$.



- A) 129° B) 136° C) 154° D) 160°

Find the measure of angle b.

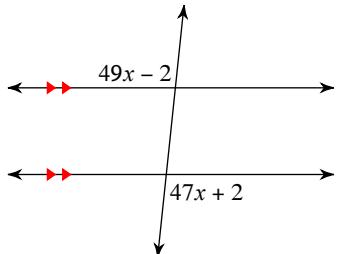
2)



- A) 137° B) 126° C) 40° D) 50°

Solve for x.

3)

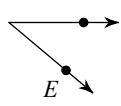


- A) 10 B) 9 C) 2 D) 8

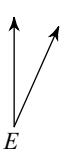
Draw and label an angle to fit each description.

- 4) an obtuse angle, $\angle E$

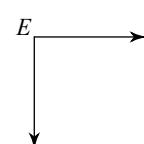
A)



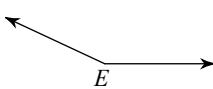
B)



C)

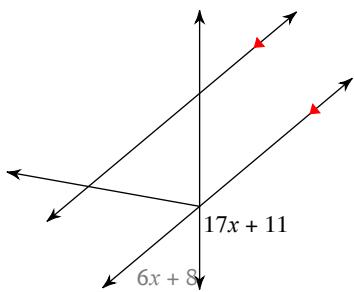


D)



Find the measure of the angle indicated in bold.

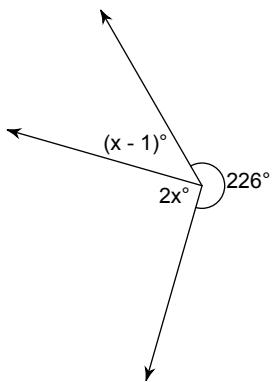
- 5)



- A) 65° B) 102° C) 120° D) 130°

Find the value of x.

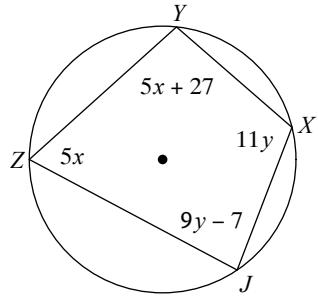
- 6)



- A) 51 B) 56 C) 45 D) 53

Solve for x and y .

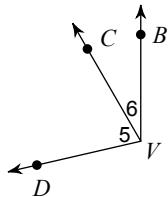
7)



- A) $x = 14, y = 10$ B) $x = 10, y = 9$ C) $x = 3, y = 10$ D) $x = 7, y = 4$

Name all the angles that have V as a vertex.

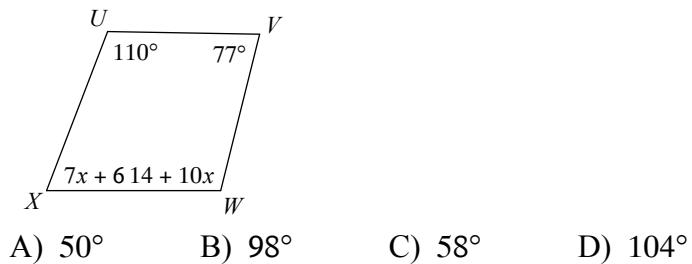
8)



- A) $\angle 5, \angle 6, \angle CDV$ B) $\angle 5, \angle 6, \angle VBC$ C) $\angle 5, \angle 6, \angle BCD$ D) $\angle 5, \angle 6, \angle DV$

Find the measure of each angle indicated.

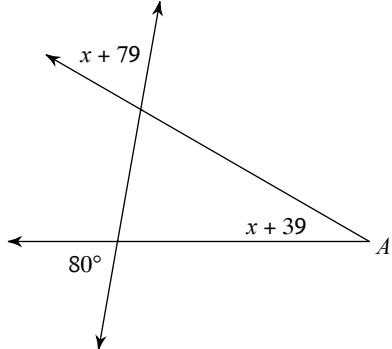
9) $m\angle W$



- A) 50° B) 98° C) 58° D) 104°

Find the measure of angle A.

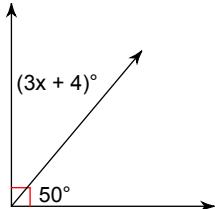
10)



- A) 70° B) 25° C) 30° D) 31°

Find the value of x.

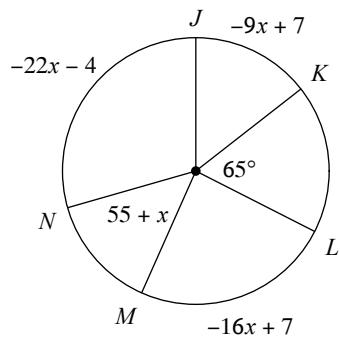
11)



- A) 2 B) 8 C) 12 D) 1

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

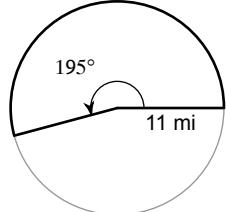
12) $m\widehat{MN}$



- A) 62° B) 142° C) 122° D) 50°

Find the area of each sector.

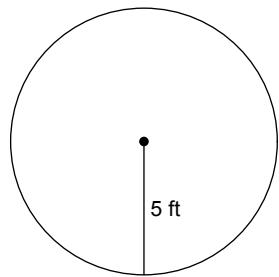
13)



- A) $\pi \text{ mi}^2$ B) $4290\pi \text{ mi}^2$ C) $\frac{33\pi}{4} \text{ mi}^2$ D) $\frac{1573\pi}{24} \text{ mi}^2$

Find the circumference of each circle.

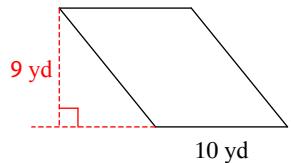
14)



- A) 8π ft B) 10π ft C) 16π ft D) 12π ft

Find the area of each.

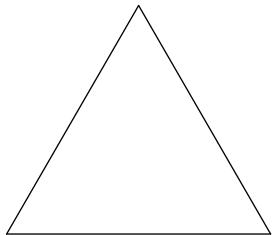
15)



- A) 180 yd 2 B) 94.1 yd 2 C) 90 yd 2 D) 91.5 yd 2

Find the area of each figure. Round your answer to the nearest tenth.

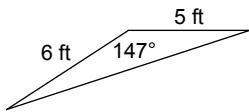
16)



Perimeter = 21 in

- A) 21.2 in 2 B) 31.5 in 2 C) 73.5 in 2 D) 42.4 in 2

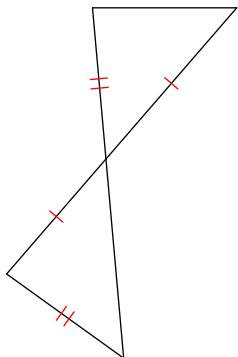
17)



- A) 12.6 ft 2 B) 9.7 ft 2 C) 8.2 ft 2 D) 16.3 ft 2

Determine if the two triangles are congruent. If they are, state how you know.

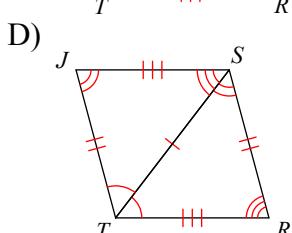
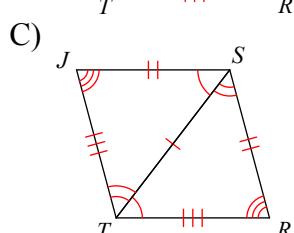
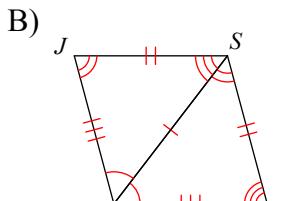
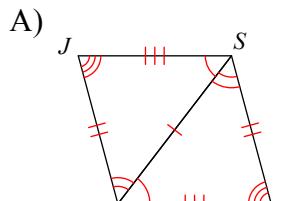
18)



- A) SAS B) Not enough information C) AAS D) SSS

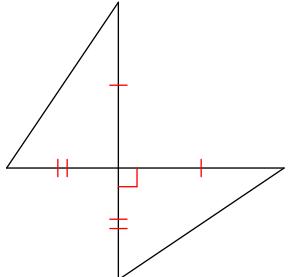
Mark the angles and sides of each pair of triangles to indicate that they are congruent.

19) $\triangle TSR \cong \triangle STJ$



Determine if the two triangles are congruent. If they are, state how you know.

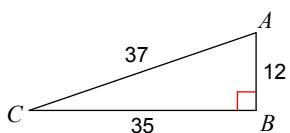
20)



- A) SAS B) Not enough information C) AAS D) SSS

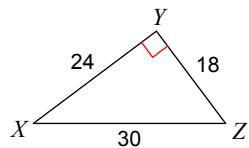
Find the value of each trigonometric ratio.

21) $\sin C$



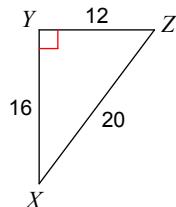
- A) $\frac{37}{35}$ B) $\frac{35}{37}$ C) $\frac{12}{35}$ D) $\frac{12}{37}$

22) $\cos Z$



- A) $\frac{5}{3}$ B) $\frac{3}{5}$ C) $\frac{4}{3}$ D) $\frac{4}{5}$

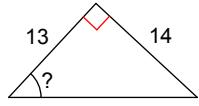
23) $\cos Z$



- A) $\frac{5}{4}$ B) $\frac{5}{3}$ C) $\frac{4}{3}$ D) $\frac{3}{5}$

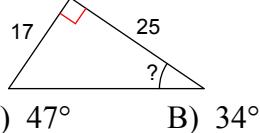
Find the measure of the indicated angle to the nearest degree.

24)



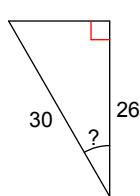
- A) 68° B) 22° C) 43° D) 47°

25)



- A) 47° B) 34° C) 52° D) 43°

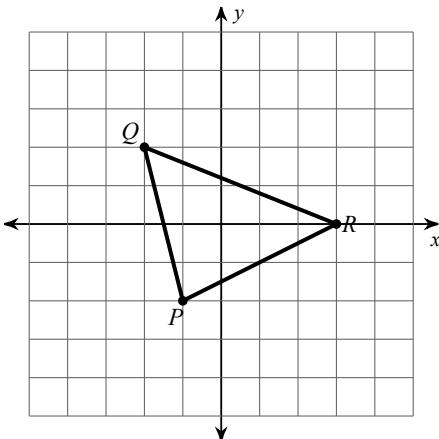
26)



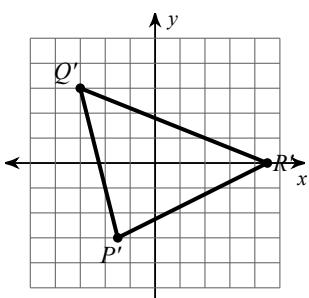
- A) 30° B) 60° C) 49° D) 41°

Graph the image of the figure using the transformation given.

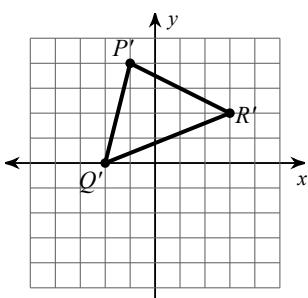
27) dilation of 1.5 about the origin



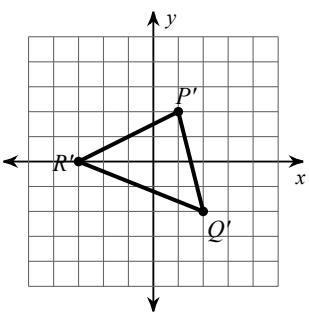
A)



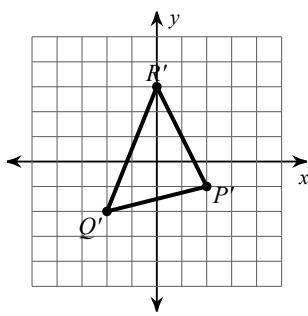
B)



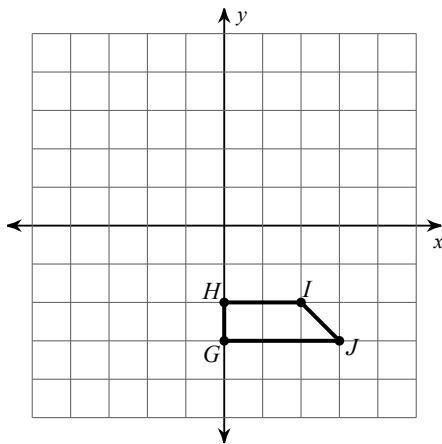
C)



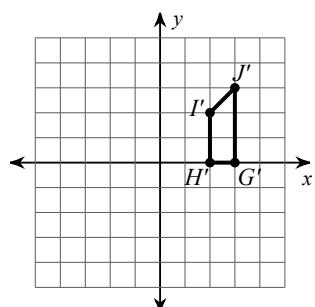
D)



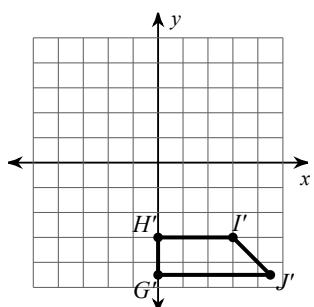
28) translation: 2 units left and 5 units up



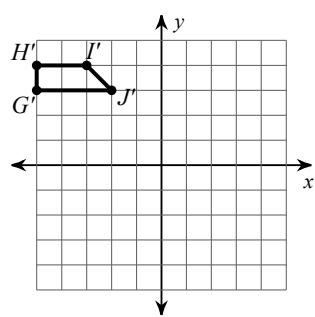
A)



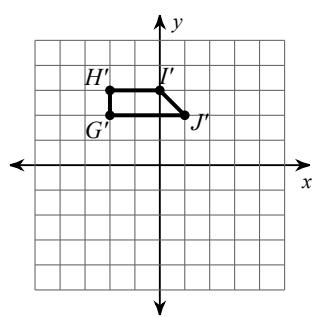
B)



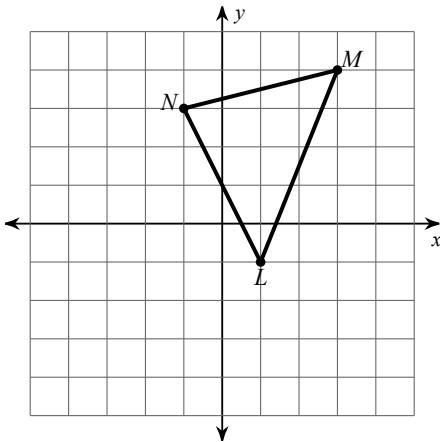
C)



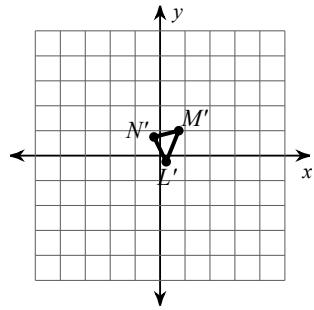
D)



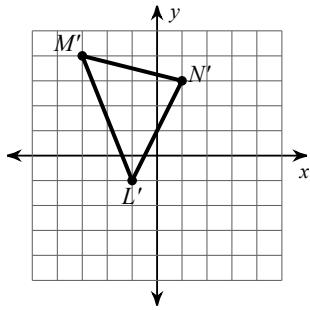
29) reflection across the y-axis



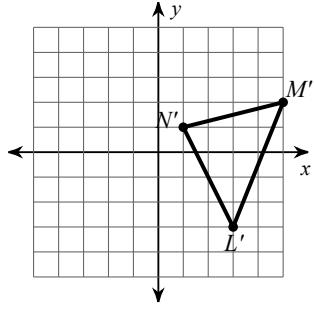
A)



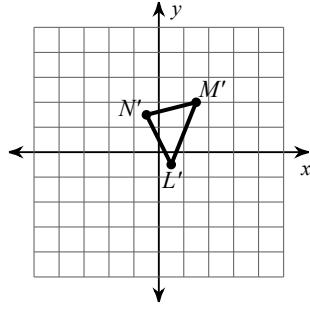
B)



C)



D)



Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

30) $(-3.7, 2)$, $(-2.7, -4.4)$

- A) 11.5 B) 8.3 C) 2.7 D) 6.5