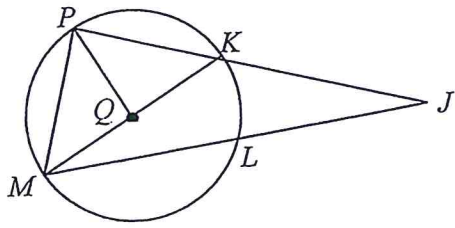


Warm-up / 4-25-2018

WRITE IN YOUR IN-CLASS SECTION

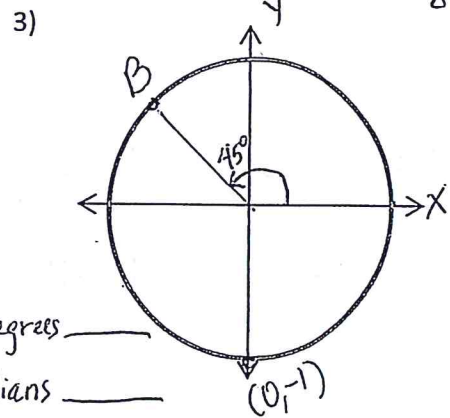
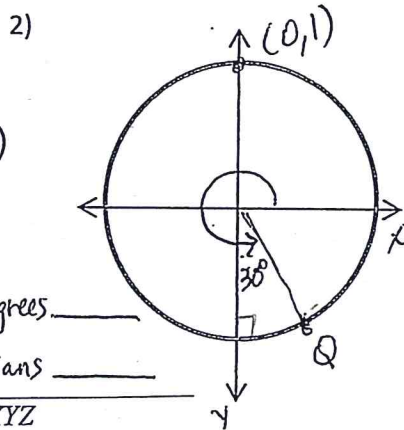
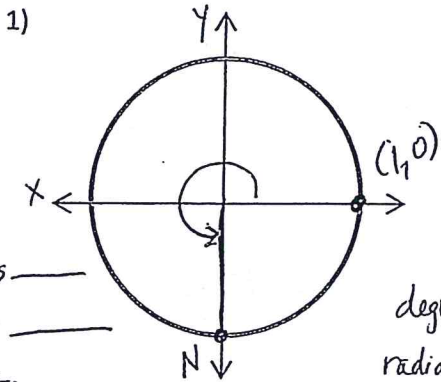
1) Use sketch below. For a-h, list all terms that apply from list on right



- a) \overline{ML}
- b) \overline{PQ}
- c) \overline{MK}
- d) \widehat{MPK}
- e) $\angle PML$
- f) $\angle PQL$
- g) \widehat{MLP}
- h) \overleftrightarrow{MK}

- major arc
- secant
- chord
- diameter
- minor arc
- semicircle
- radius
- inscribed angle
- central angle

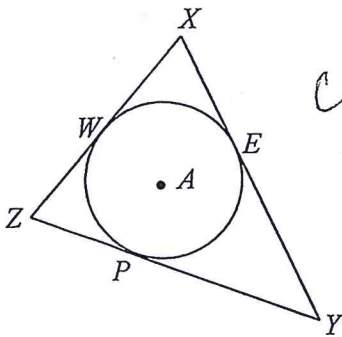
1-3) Give degrees, radians, and coordinates for the given point on the circle.



11. Given: Circle A inscribed in $\triangle XYZ$

$XW = 7$, $ZW = 5$, and $XY = 15$

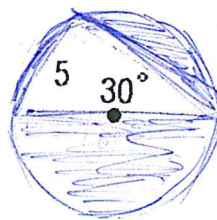
Find: Perimeter of $\triangle XYZ$ _____



Copy sketch

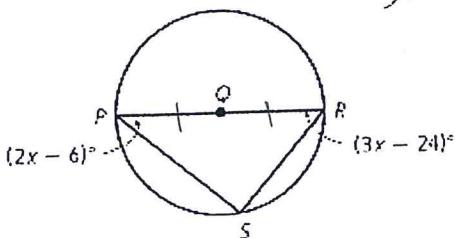
13. Find the area of the shaded region.

Show work



14. What is $m\widehat{SR}$?

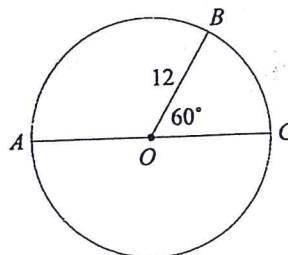
Show work



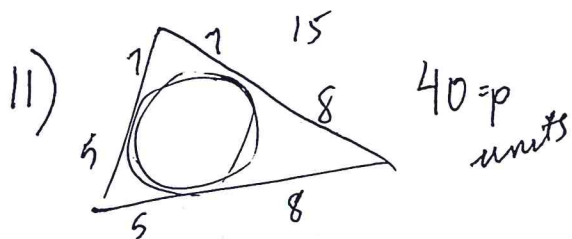
17.

In the figure shown, what is the arc length of \widehat{AB} ?

Show work



- 1) a) chord
 b) radius
 c) diameter, chord
 d) semicircle
 e) inscribed angle
 f) central angle
 g) major arc
 h) secant



14)

$$2x - 6 + 3x - 24 = 90$$

$$5x - 30 = 90$$

$$5x = 120$$

$$x = 24$$

$$LP = 2(24) - 6 = 42$$

$$\widehat{SR} = 42 \cdot 2 = 84^\circ$$

Unit circle

1) degrees 270°
 radians $\frac{3\pi}{2}$
 coordinates $(0, -1)$

2) degrees 300°
 radians $\frac{5\pi}{3}$
 coordinates $(\frac{1}{2}, -\frac{\sqrt{3}}{2})$

3) degrees 135°
 radians $\frac{3\pi}{4}$
 coordinates $(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$

13)

diam = 10
 other leg $5\sqrt{3}$
 radius = 5

$$5^2\pi - \frac{1}{2} \cdot 5 \cdot 5\sqrt{3}$$

$$25\pi - 12.5\sqrt{3}$$

units

17) $\angle AOB = 120^\circ$ $\widehat{AB} = 120^\circ$

$$\frac{al}{c} = \frac{am}{360}$$

$$\frac{x}{24\pi} = \frac{120}{360}$$

$$\frac{x}{24\pi} = \frac{1}{3}$$

$$3x = 24\pi$$

$$x = 8\pi \text{ units}$$