

MAY 24, 2016

UNIT 8: CIRCLE GEOMETRY

**PREPARATION FOR
UNIT 8 TEST**

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*MATH 9***

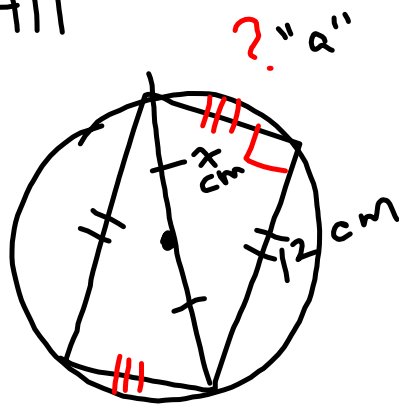


HOMEWORK QUESTIONS???

(page 411, #9 & #11; page 419, #9 & #10;
page 420, #2; pages 466/7, #20 & #23)

Pg. 411

9.



$$a^2 + b^2 = c^2$$

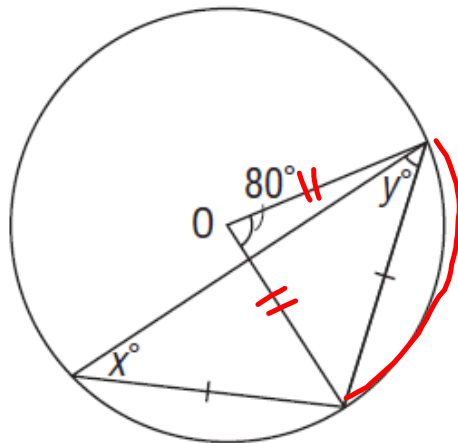
$$a^2 + 12^2 = 14^2$$

$$a^2 + 144 = 196$$

$$\sqrt{a^2} = \sqrt{52}$$

$$a = 7.2 \text{ cm}$$

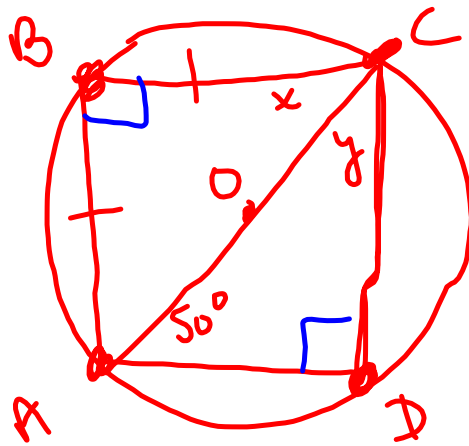
pg. 411, #11a)



$$\angle x = 40^\circ \text{ (CIAP)}$$

$$\angle y = 40^\circ \text{ (ITT)}$$

Pg. 411, # 11. b)



$$\angle ADC = 90^\circ \text{ (ASP)}$$

$$\angle y = 40^\circ \text{ (SATT)}$$

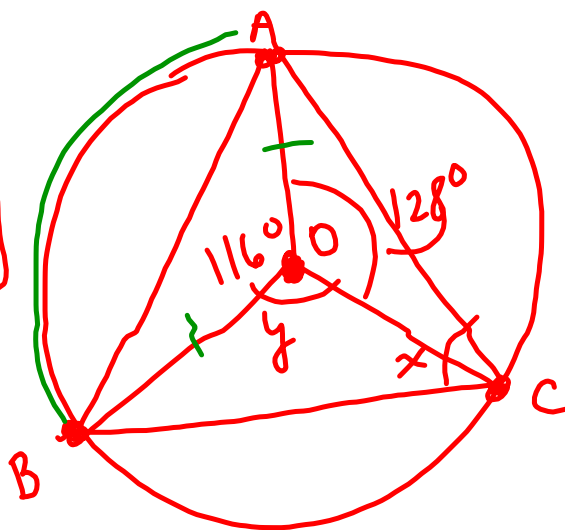
$$\angle ABC = 90^\circ \text{ (ASP)}$$

$$\angle x = 45^\circ \text{ (ITT/SAT)}$$

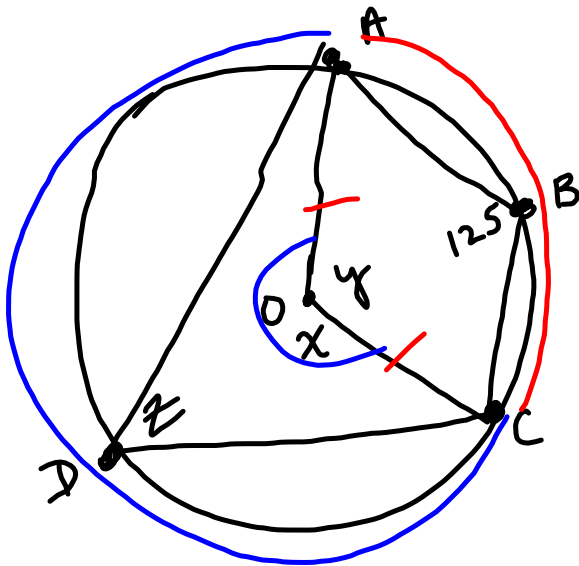
Pg. 411, #11.c)

$$\angle y = 116^\circ [360 - (116 + 128)]$$

$$\angle x = 58^\circ (\angle CAP)$$

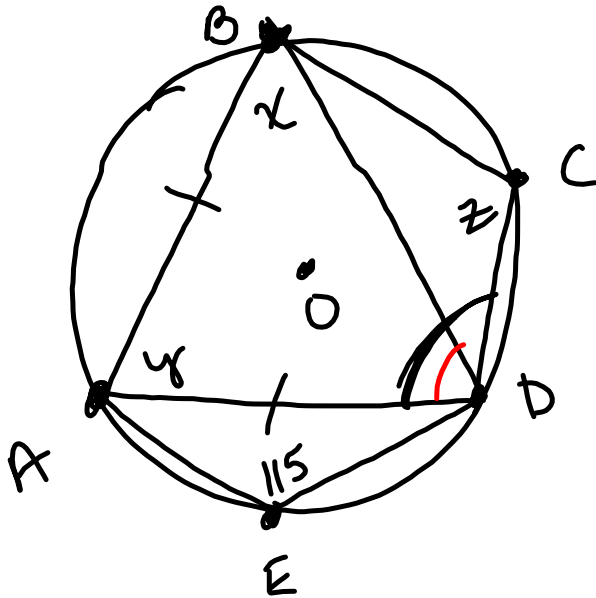


Pg. 466, #20



$$\begin{aligned} \angle z &= 55^\circ \text{ (CQP)} \\ \angle y &= 110^\circ \text{ (CIA P)} \\ \angle x &= 250^\circ \text{ (360 - 110)} \\ &\quad \text{(CIA P)} \end{aligned}$$

Pg. 467, #23



$$\begin{aligned} \angle x &= 65^\circ \text{ (CQP)} \\ \angle ADC &= 115^\circ \text{ (CQP)} \\ \angle ADB &= 65^\circ \text{ (ITT)} \\ \angle y &= 50^\circ \text{ (SAT)} \\ \angle z &= 130^\circ \text{ (CQP)} \end{aligned}$$

USEFUL VOCABULARY FOR THE TEST:

radius/radii

diameter

hypotenuse

tangent (pg. 385)

chord (pg. 393)

arc (pg. 405)

central angle (pg. 405)

inscribed angle (pg. 405)

FORMULA / CIRCLE PROPERTIES FOR THE TEST:

$a^2 + b^2 = c^2$ (Pythagorean Theorem)

SATT (Sum of the Angles in a Triangle Theorem); see notes

TRP (Tangent-Radius Property); pg. 385

PCP (Perpendicular to Chord Property); pgs. 393/4

ITT (Isosceles Triangle Theorem); see notes

CIAP (Central Angle and Inscribed Angle Property); pg. 406

IAP (Inscribed Angles Property); pg. 406

ASP (Angles in a Semicircle Property); pg. 406

CQP (Opposite Angles in a Cyclic Quadrilateral Property); see notes

**SUGGESTED PRACTICE QUESTIONS
(PREPARATION FOR THURSDAY'S UNIT TEST):**

WORKSHEETS:

**"Section 8.1 & 8.2 Review" and "Circle
Worksheet #1"**

Attachments

Worksheet - Angles in a Circle.doc