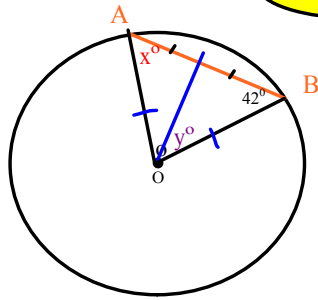


## Warm up

April 28, 2015



Determine the value of  $x^\circ$  and  $y^\circ$   
 SHOW YOUR WORK  
 (or give justification)

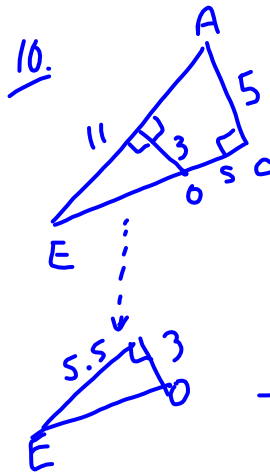
For X

$x = 42^\circ$  isosceles  
 triangle

For Y

$$y = 180 - 42 - 90 \\ = 48^\circ$$

Homework  
 Page 398



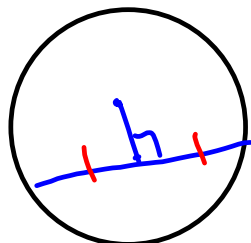
$$a^2 = c^2 - b^2 \\ EC^2 = 11^2 - 5^2 \\ = 121 - 25 \\ = 96 \\ EC = \sqrt{96} \\ = 9.8$$

$$EO^2 = 5.5^2 + 3^2 \\ = 30.25 + 9 \\ = 39.25 \\ EO = \sqrt{39.25} \\ = 6.3$$

$$S = 9.8 - 6.3 \\ = 3.5$$

Three characteristics...

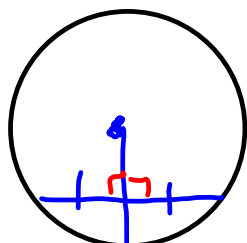
1. Bisection a chord
- ✓ 2. Meets chord at  $90^\circ$
- ✓ 3. Goes through the center of the circle



If you have two then the third is also true.

Three characteristics...

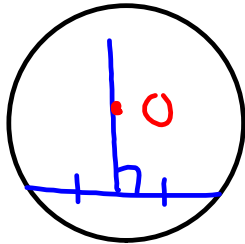
- ✓ 1. Bisection a chord
2. Meets chord at  $90^\circ$
- ✓ 3. Goes through the center of the circle



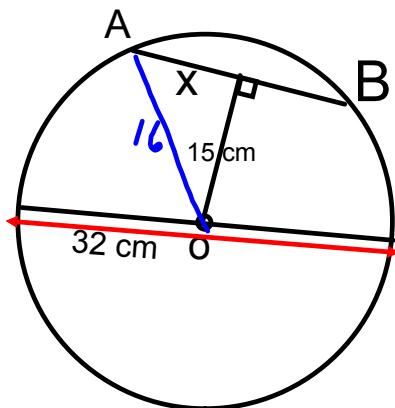
If you have two then the third is also true.

## Three characteristics...

- ✓ 1. Bisects a chord
- ✓ 2. Meets chord at  $90^\circ$
- 3. Goes through the center of the circle

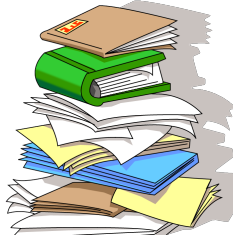


If you have two then the third is also true.



Determine the length of x  
SHOW YOUR WORK

$$\begin{aligned}a^2 &= c^2 - b^2 \\x^2 &= 16^2 - 15^2 \\&= 256 - 225 \\&= 31 \\x &= \sqrt{31} \\&= 5.6 \text{ cm}\end{aligned}$$



Homework :  
p. 403

- 1
- 2
- 3
- 4
- 5
- 6
- 7

