

Circles Practice

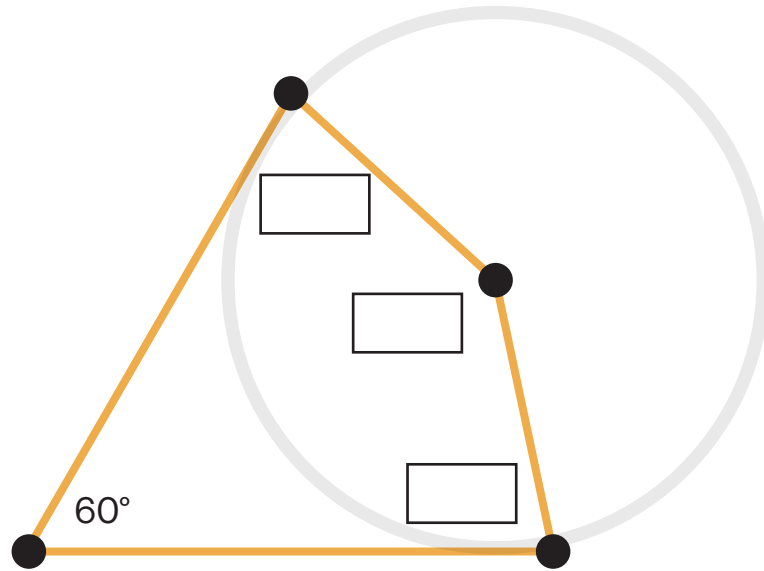
Name: _____

Date: _____

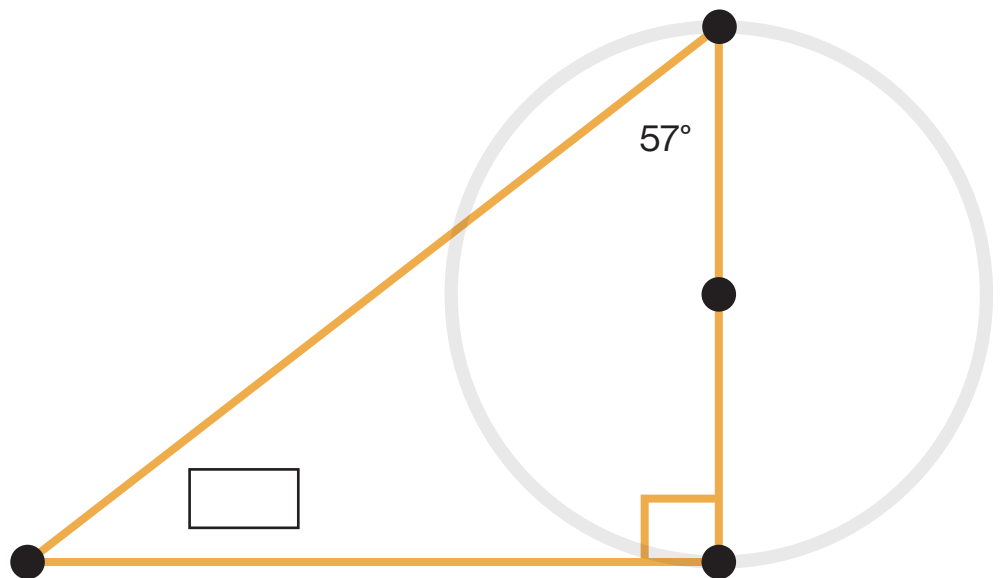
Question 1

Determine the unknown values

I.

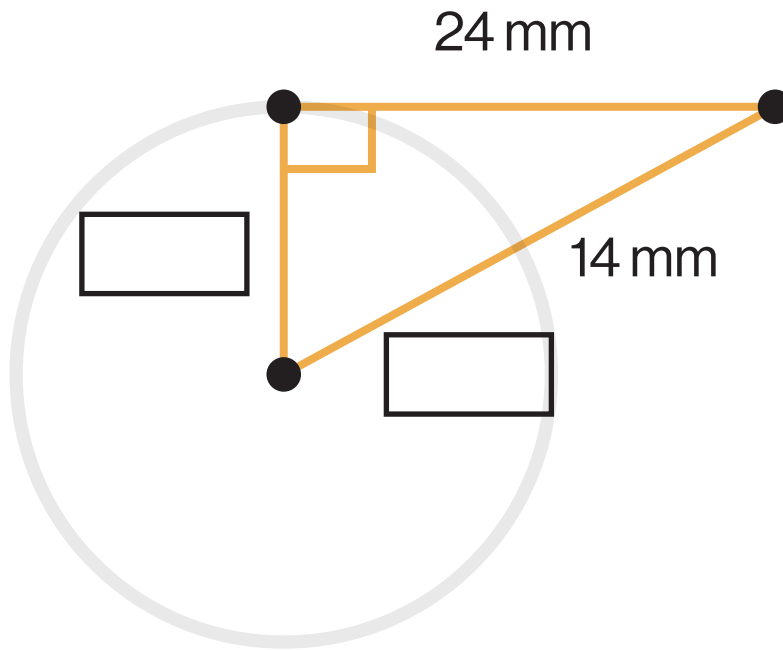


II.



Circles Practice

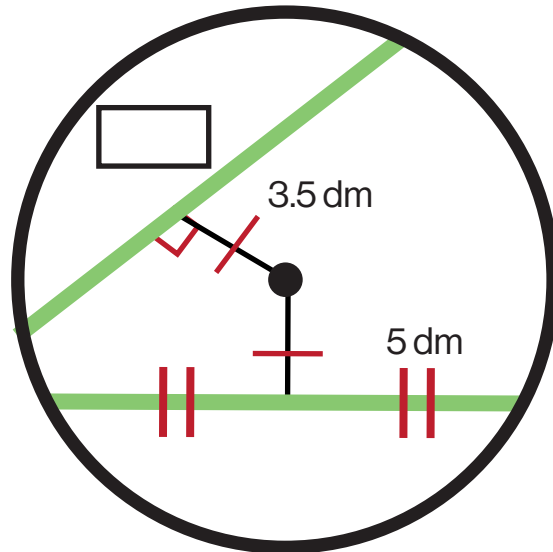
III.



Circles Practice

Question 2

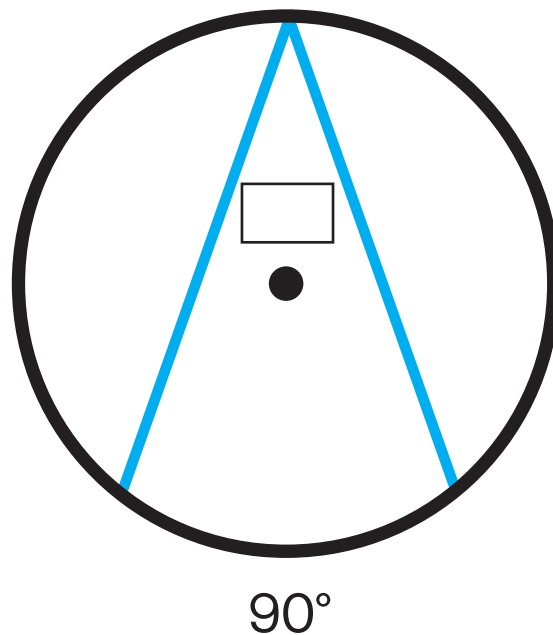
Determine the unknown values



Question 3

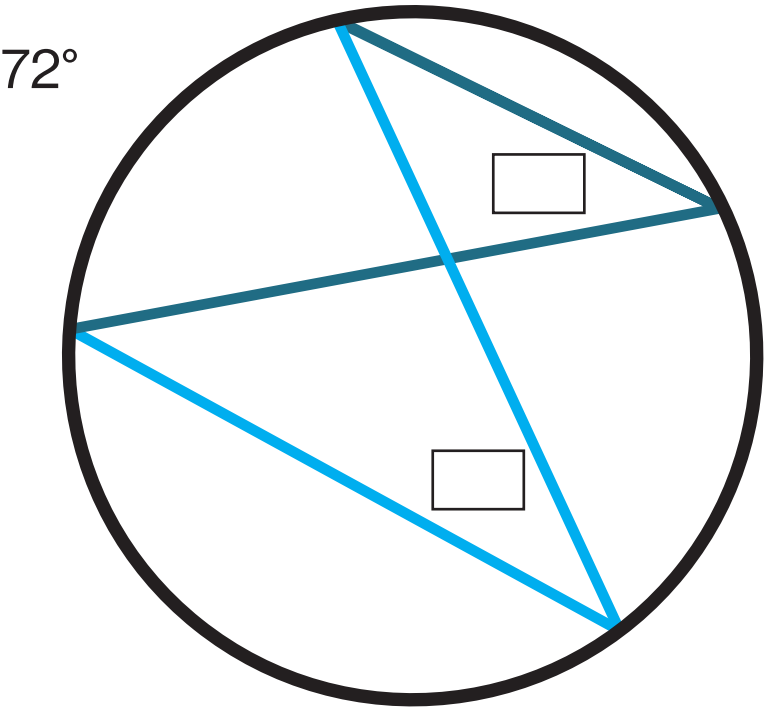
Determine the unknown values

I.

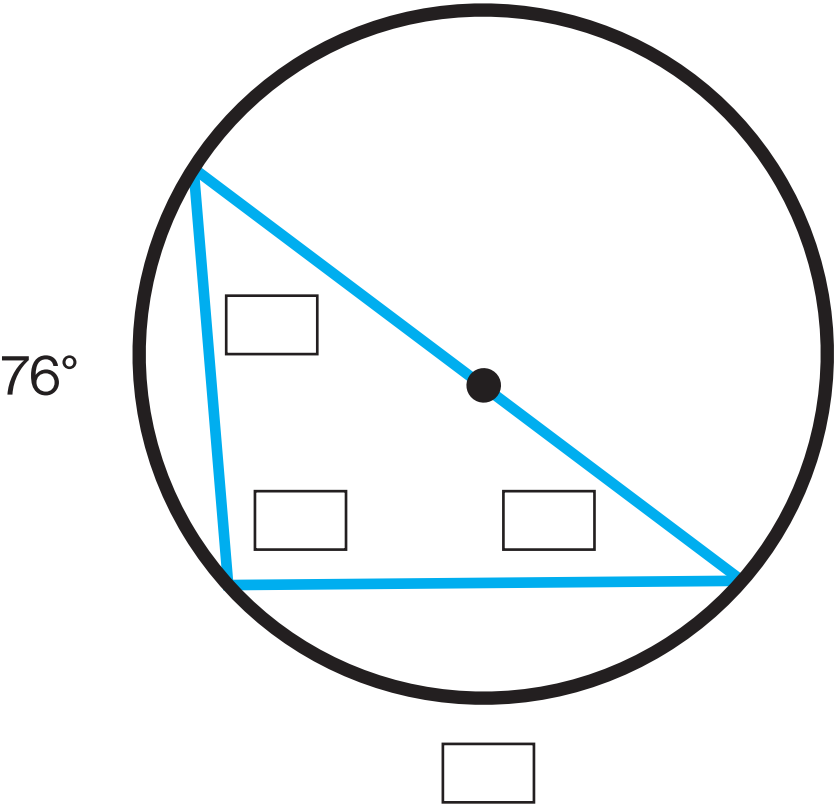


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II.

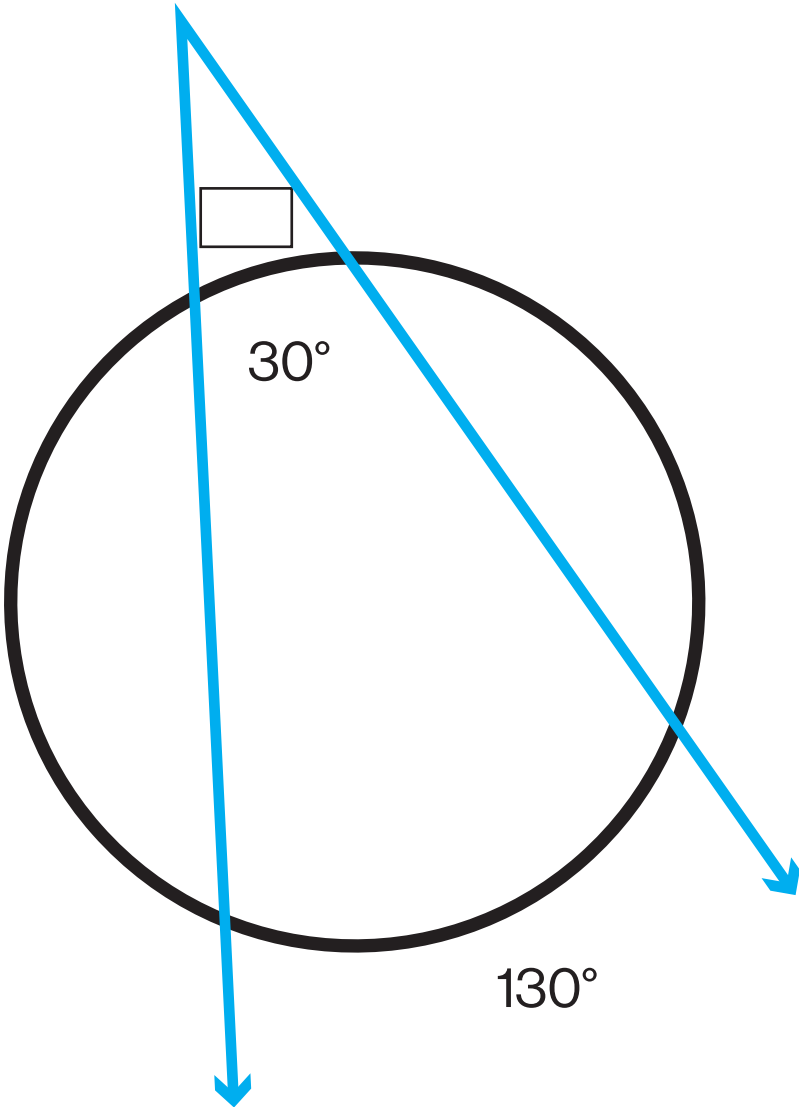


III.



Circles Practice

IV.



Circles Practice

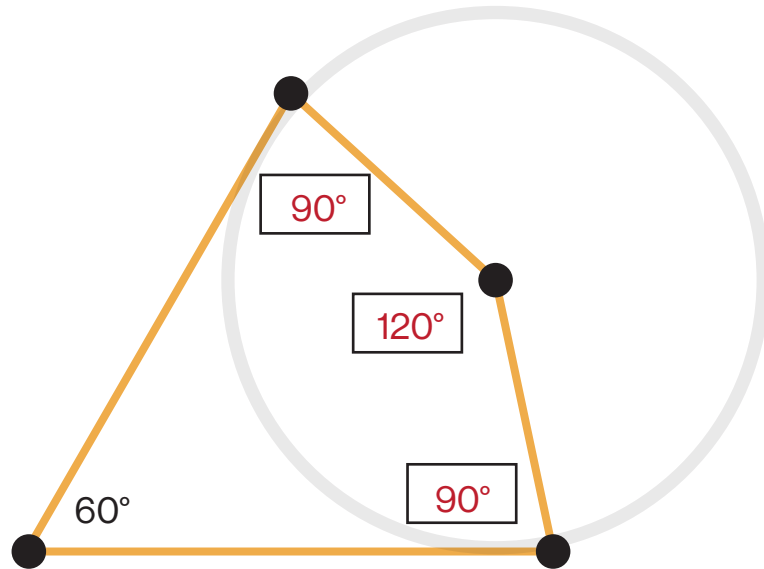
Name: _____ **Key** _____

Date: _____

Question 1

Determine the unknown values

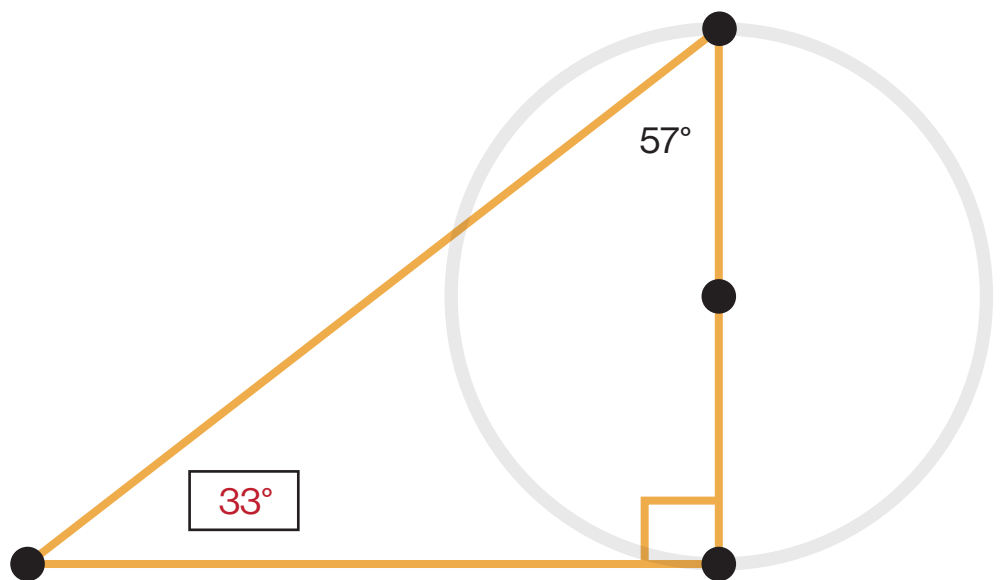
I.



quadrilateral = 360°

$$360 - 60 - 90 - 90 = 120^\circ$$

II.

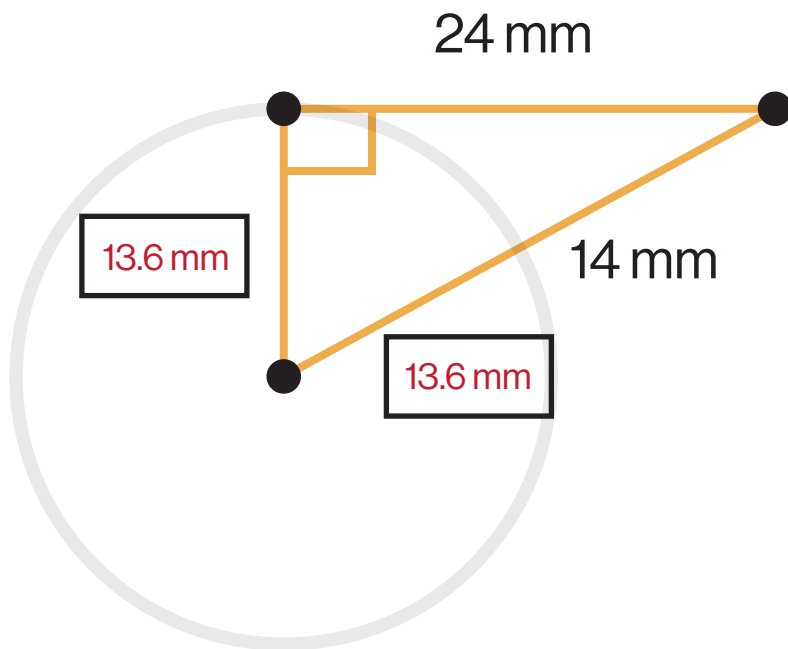


triangle = 180°

$$180 - 90 - 57 = 33^\circ$$

Circles Practice

III.



$$(14 + x)^2 = 24^2 + x^2$$

$$(14 + x)(14 + x) = 24^2 + x^2$$

$$x^2 + 14x + 14x + 196 = 576 + x^2$$

$$x^2 + 28x + 196 = 576 + x^2$$

$$x^2 - x^2 + 28x + 196 = 576$$

$$28x + 196 = 576$$

$$28x = 576 - 196$$

$$28x = 380$$

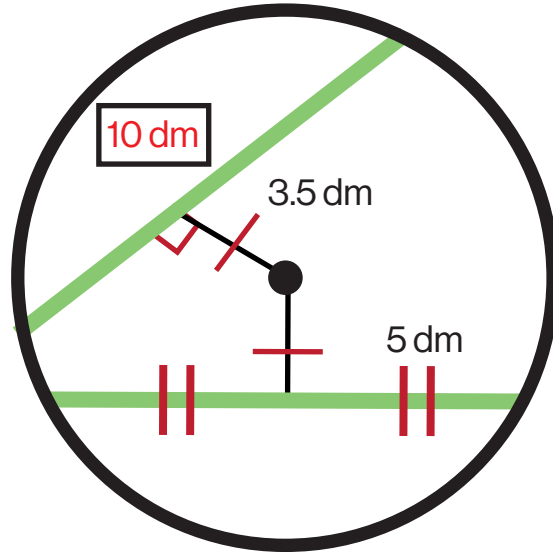
$$x = 380 / 28$$

$$x \approx 13.6 \text{ mm}$$

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Question 2

Determine the unknown values

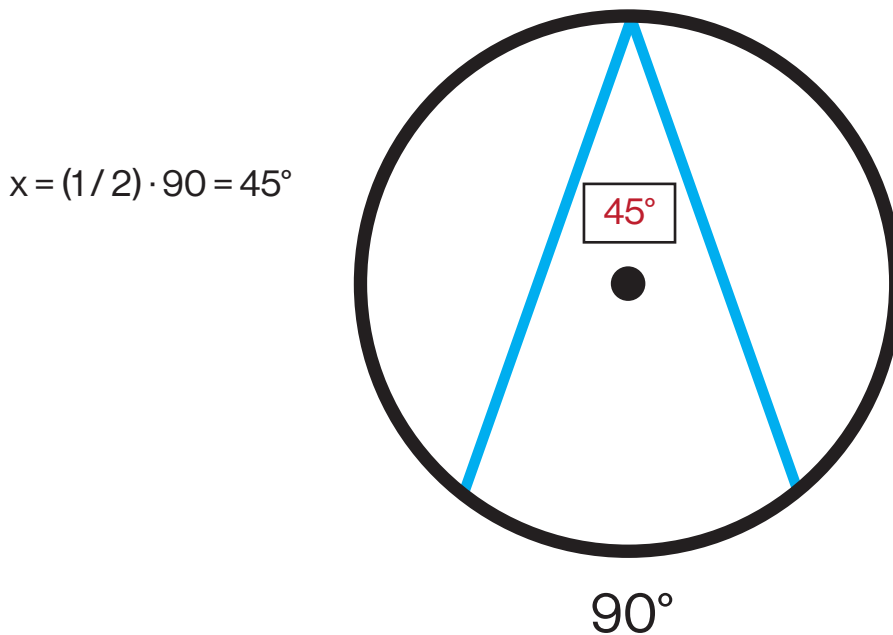


$$x = 5 \cdot 2 = 10 \text{ dm}$$

Question 3

Determine the unknown values

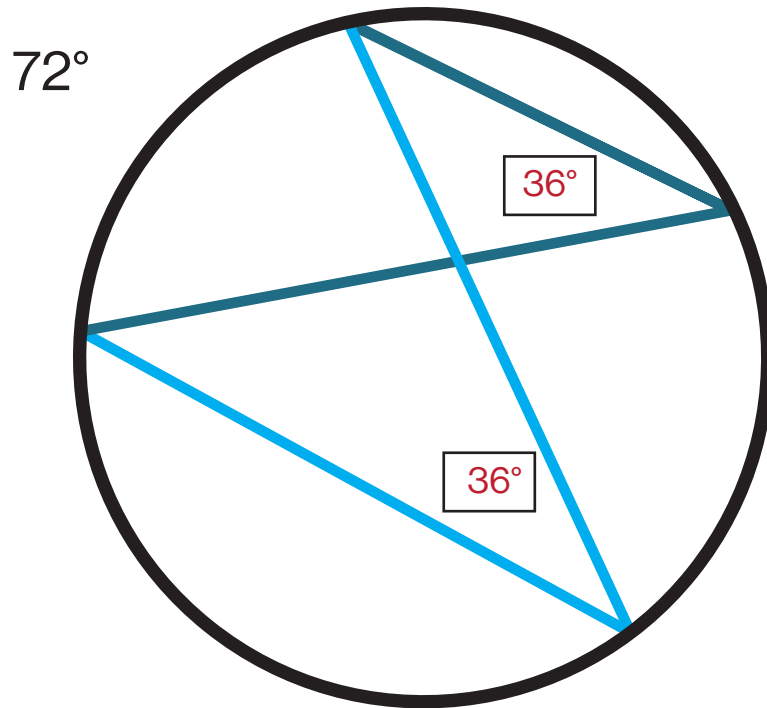
I.



$$x = (1/2) \cdot 90 = 45^\circ$$

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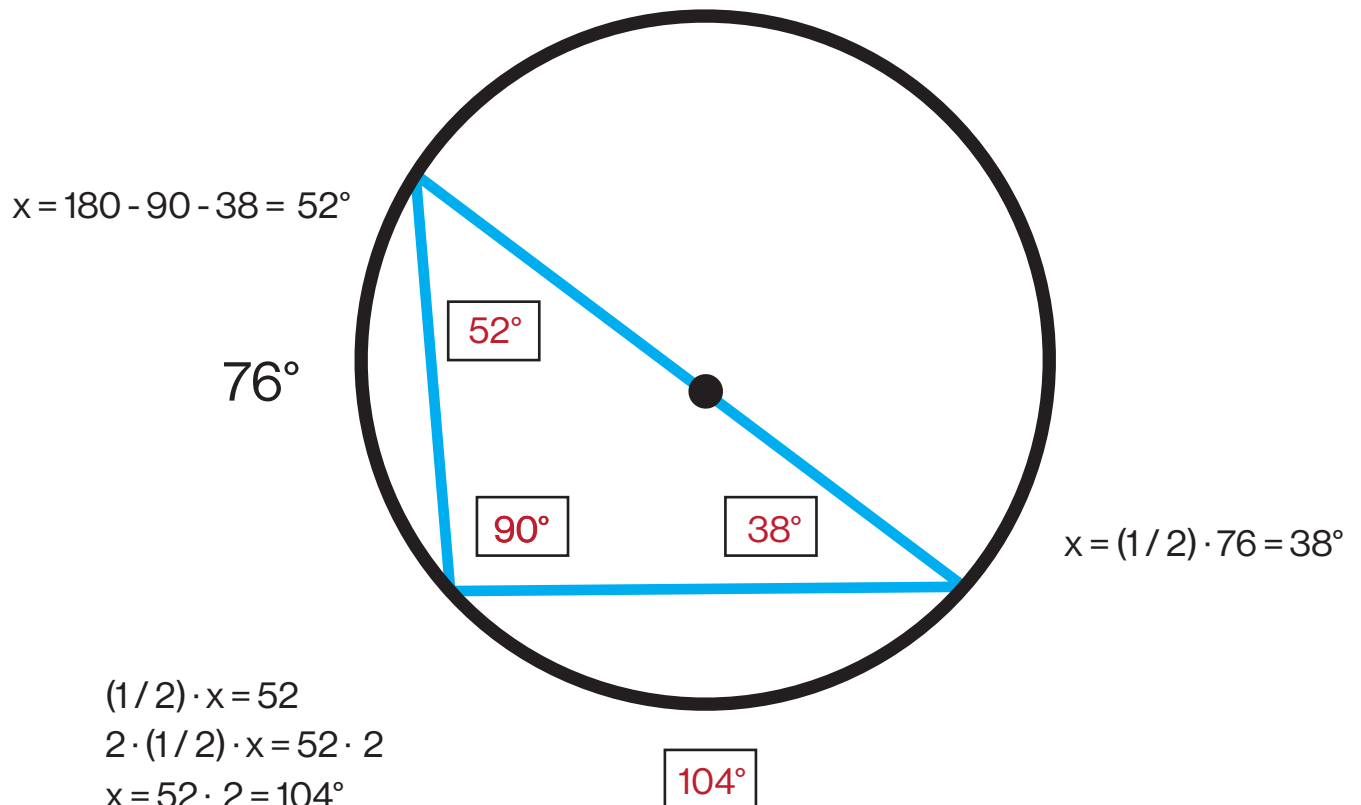
II.



$$x = (1/2) \cdot 72 = 36^\circ$$

inscribed angles intercept the same arc

III.



$$x = 180 - 90 - 38 = 52^\circ$$

76°

$$x = (1/2) \cdot 76 = 38^\circ$$

$$(1/2) \cdot x = 52$$

$$2 \cdot (1/2) \cdot x = 52 \cdot 2$$

$$x = 52 \cdot 2 = 104^\circ$$

104°

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IV.

