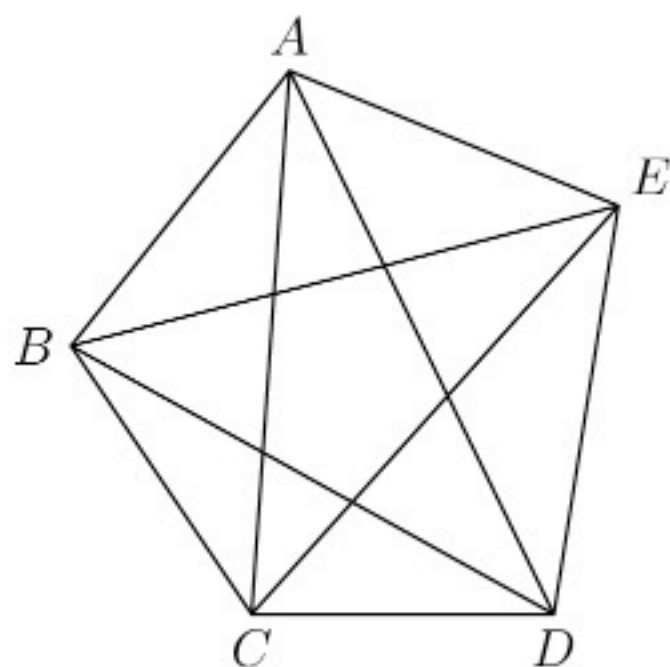


Problem 15

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Problem:

In pentagon $ABCDE$, \overline{AC} bisects $\angle BCE$ and \overline{AD} bisects $\angle BDE$. If $\angle CBD = 31^\circ$ and $\angle CED = 48^\circ$, then find $\angle CAD$, in degrees.



Beast Problem: 🐉

This is a **Beast** problem. Answering this problem can only increase your score. You will not lose points for skipping this problem or answering incorrectly.

The three angles of a triangle have measures $2x + 3y$ degrees, $6x - 5y$ degrees, and $2x + 2y$ degrees. Find x (in degrees).

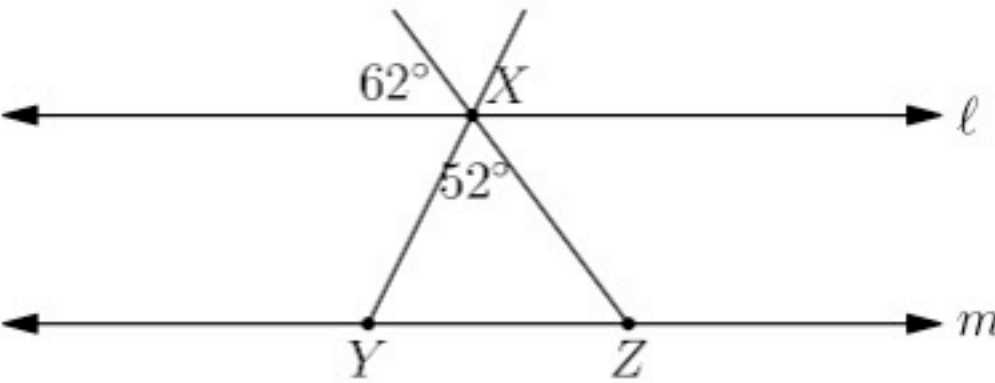
Your Answer

SUBMIT

GIVE UP

Problem 2

Given that $\ell \parallel m$, find $\angle XYZ + \angle XZY$, in degrees.



(Based on problem 2.16 in the textbook)

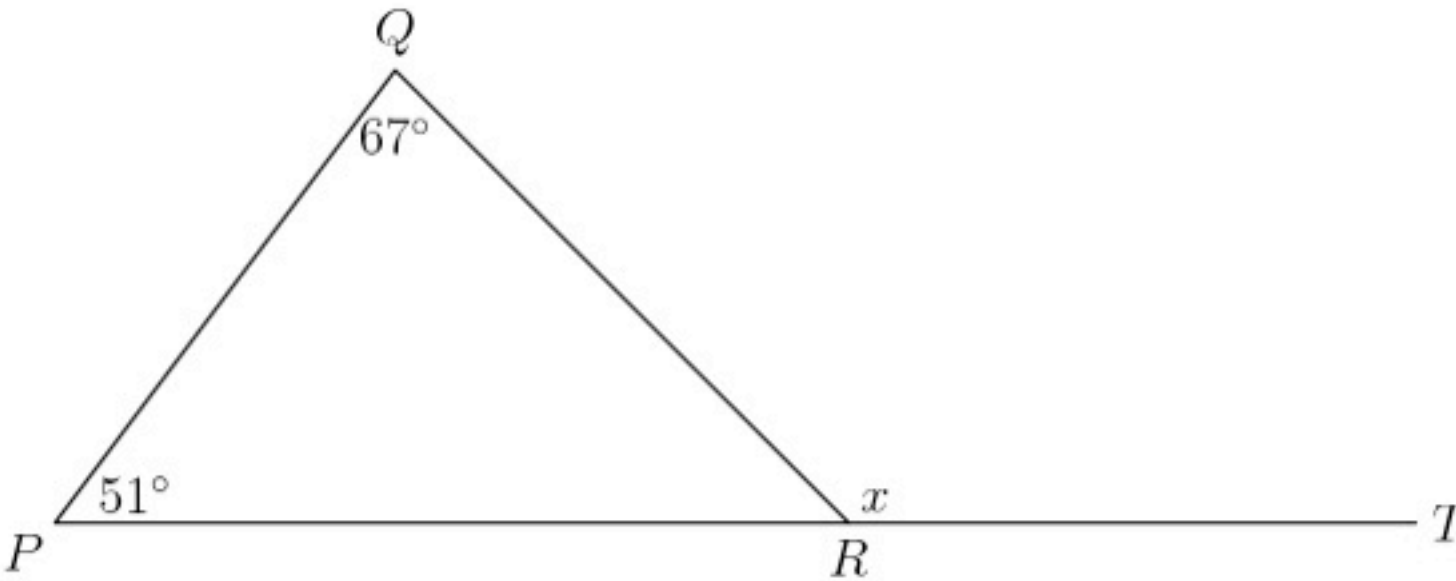
Your Answer

SUBMIT

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Problem 3

Find angle x in degrees.



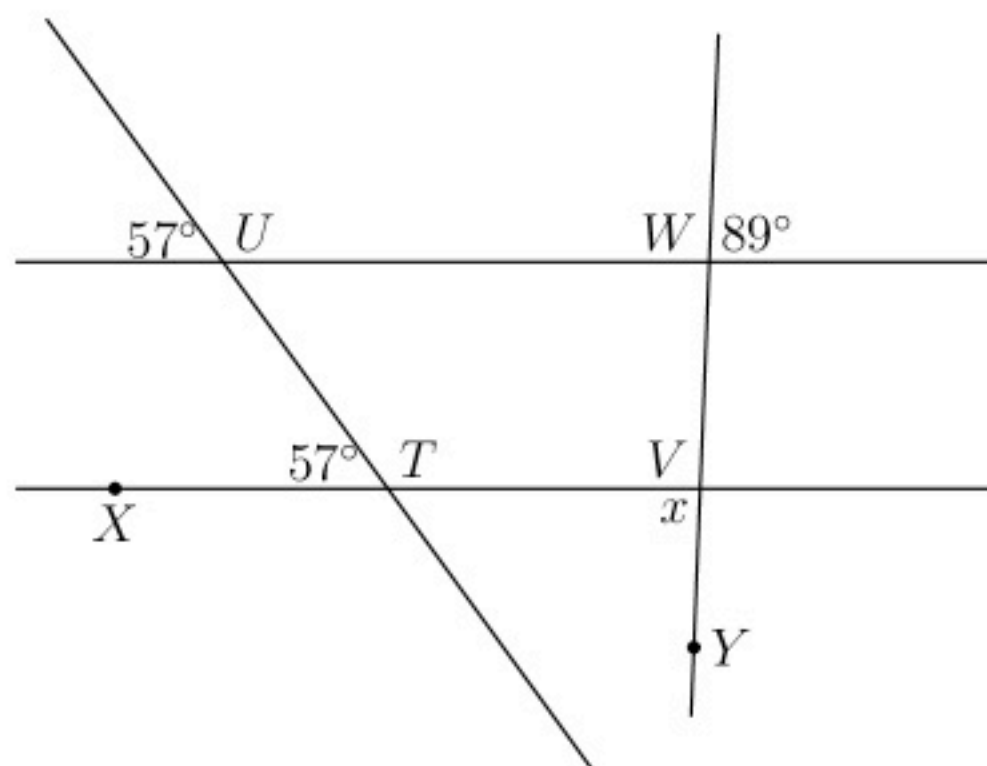
(Based on problem 2.20 in the textbook)

Problem 4

Problem:

What is angle x , in degrees?

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(Based on problem 2.24 in the textbook)

Your Answer

SUBMIT

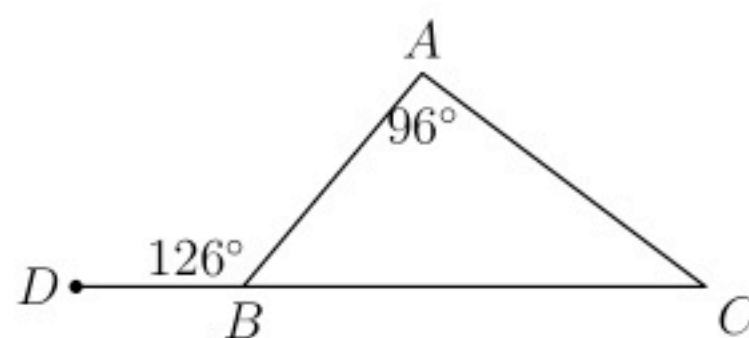
GIVE UP

Problem 5

Problem:

In the diagram, what is the measure of $\angle ACB$ in degrees?

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Your Answer

SUBMIT

GIVE UP

Problem 6

Problem:

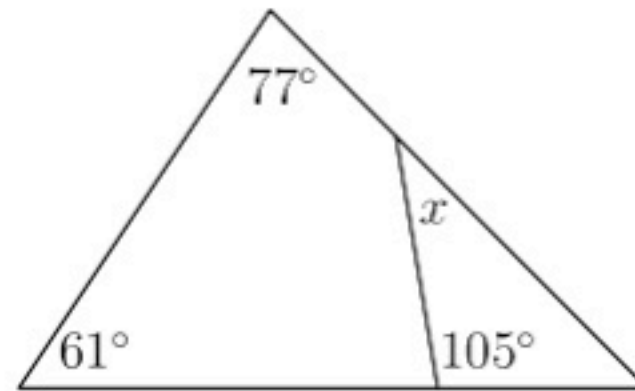
Compute angle x , in degrees.

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Problem 6

Problem:

Compute angle x , in degrees.

[Report Error](#)

SUBMIT

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Problem 7

Problem:

In triangle ABC , the angles $\angle A, \angle B, \angle C$ form an arithmetic sequence. If $\angle A = 14^\circ$, then what is $\angle C$, in degrees?

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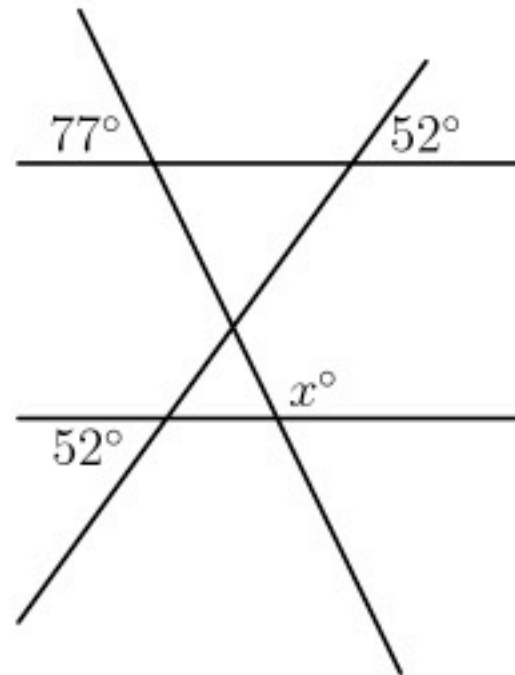
SUBMIT

GIVE UP

Problem 8

Problem:

Find the value of x .

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GIVE UP

Problem 9

Problem 9

Problem:

[Report Error](#)

What is the measure (in degrees) of the smallest **interior** angle of a triangle in which the **exterior angle** measures have the ratio 2 : 6 : 7?

Problem 10

Problem:

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A robot moved 10 meters towards north. It then turned 42° to its right and moved another 10 meters. It then turned 59° to its right and moved another 10 meters. Last, it turned x° to its right. The robot was facing south after the last move. What is x ?

Problem 11

Problem:

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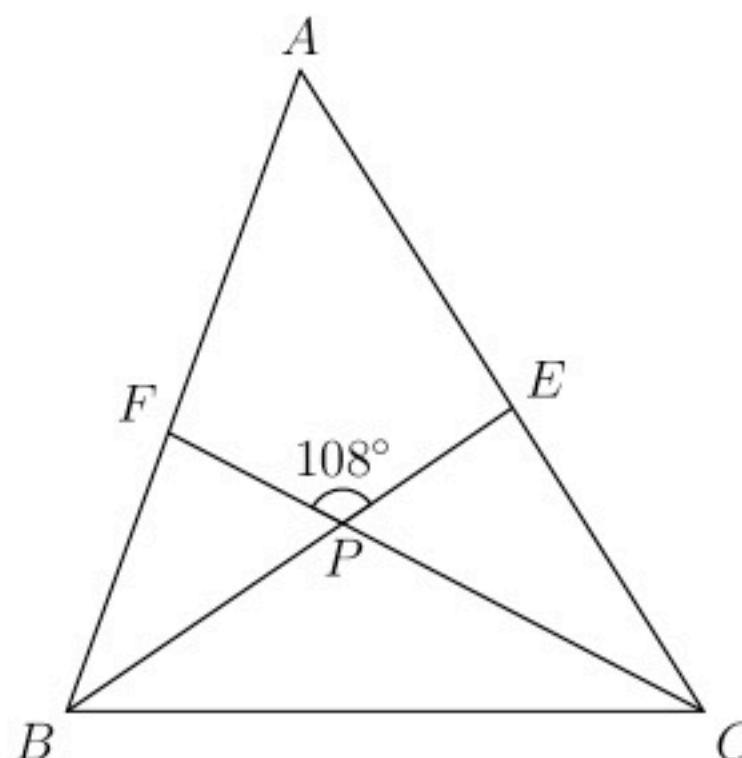
Point X is on side \overline{AC} of triangle ABC such that $\angle AXB = \angle ABX$, and $\angle ABC - \angle ACB = 44^\circ$. Find $\angle XBC$ in degrees.

Problem 12

Problem:

[Report Error](#)

Two angle bisectors of triangle ABC , \overline{BE} and \overline{CF} , intersect at P . What is $\angle A$ in degrees?

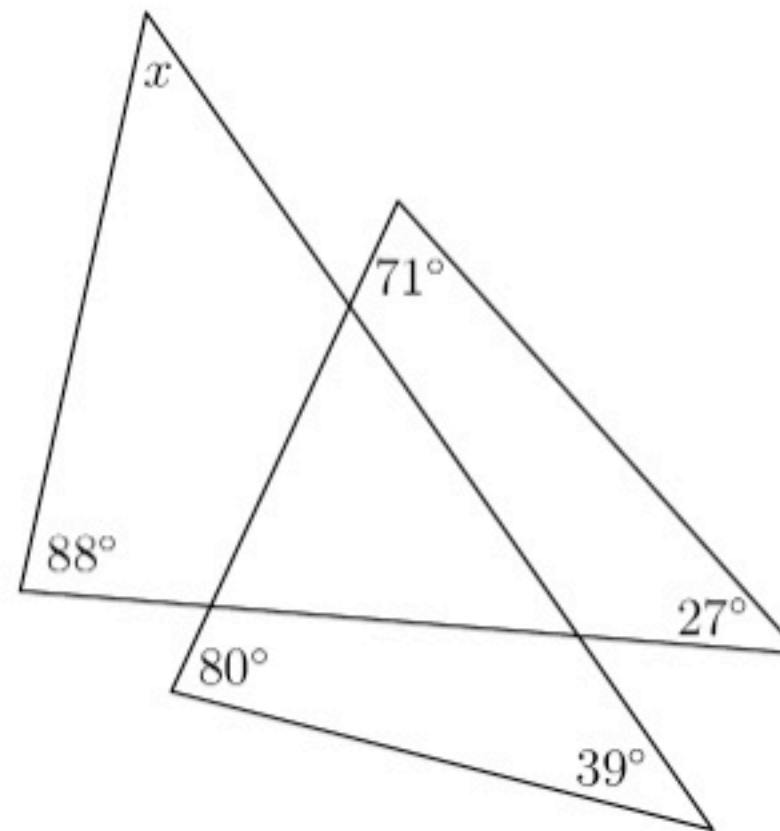


Problem 13

Problem:

Find angle x , in degrees.

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Your Answer

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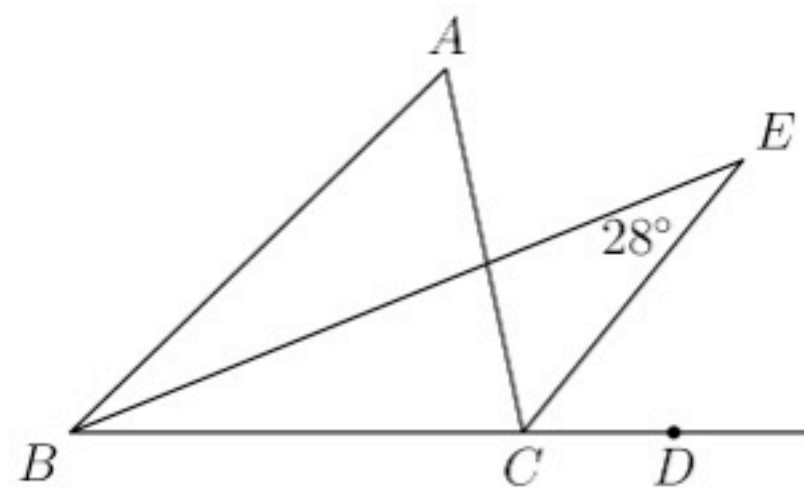
GIVE UP

Problem 14

Problem:

In the diagram, \overline{BE} bisects $\angle ABC$, and \overline{CE} bisects $\angle ACD$. Compute $\angle BAC$, in degrees.

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Your Answer

SUBMIT

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Problem 15