

What's Going On?

Checking In

Minds on

One Last Thing...

Action!

Takin' It Up

Consolidation

Jeopardy?

Learning Goal - I will review my Geometric Relationships!

Checking In

This Week!

Monday - Review

Tuesday - More Review!

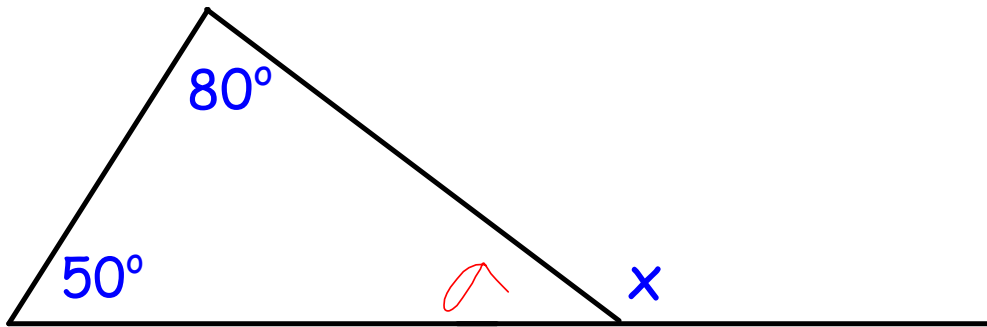
Wednesday - Test

Thursday - Pythagorean Theorem

Friday - Composite Figures

Minds on

One Last Little Thing

Find the measure of angle x 

$$\begin{aligned} a &= 180 - 80 - 50 \\ &= 50^\circ \text{ by IAT} \end{aligned}$$

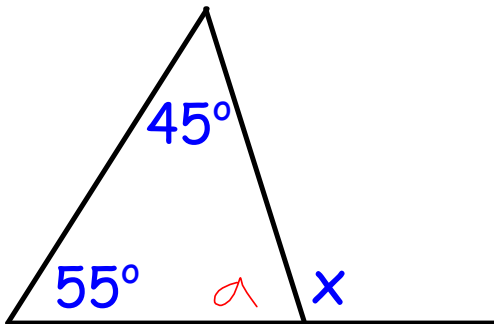
$$\begin{aligned} x &= 180 - 50 \\ &= 130^\circ \text{ by SAT} \end{aligned}$$

$$\therefore x = 130^\circ$$

Minds on

One Last Little Thing

Find the measure of angle x



$$a = 180 - 55 - 45$$
$$a = 80^\circ \text{ by IAT}$$

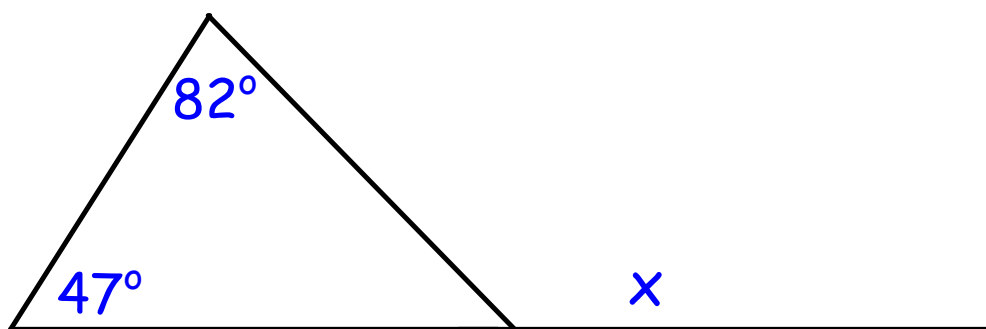
$$x = 180 - 80$$
$$x = 100^\circ \text{ by SAT}$$

$$\therefore x = 100^\circ$$

Minds on

One Last Little Thing

Find the measure of angle x



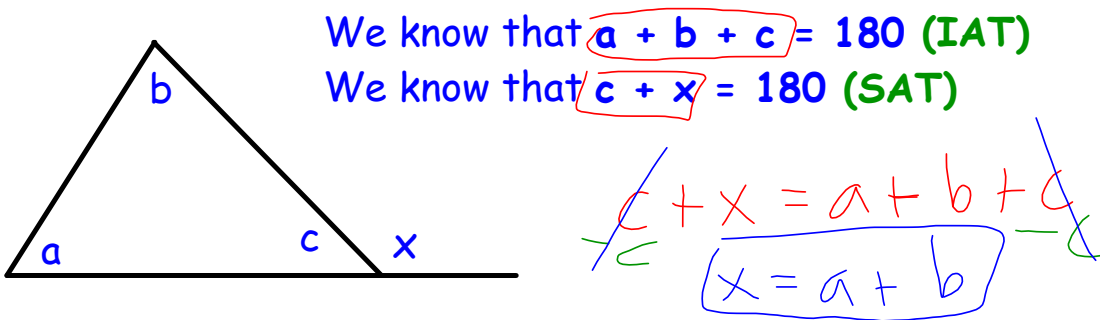
$$x = 129^\circ$$

by IAT + SAT

Minds on

One Last Little Thing

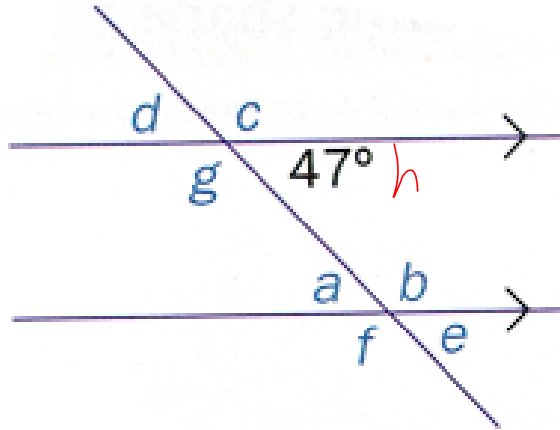
Find the measure of angle x



The exterior angle at each vertex of a triangle is equal to the sum of the interior angles at the other two vertices.

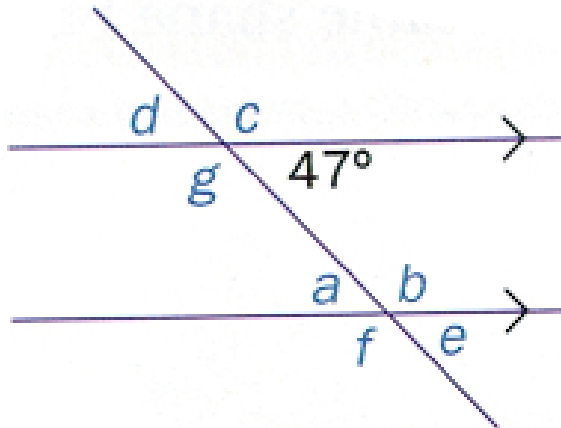
Action!

Solving and Justifying



Using the diagram above, identify two pairs of:

<p>Opposite Angles</p> <p>$d + h$ $c + g$ $b + f$ $a + e$</p>	<p>Alternate Angles</p> <p>$a + h$ $g + b$</p>
<p>Corresponding Angles</p> <p>$f + g$ $e + h$ $b + c$ $a + d$</p>	<p>Co-Interior Angles</p> <p>$a + g$ $h + b$</p>

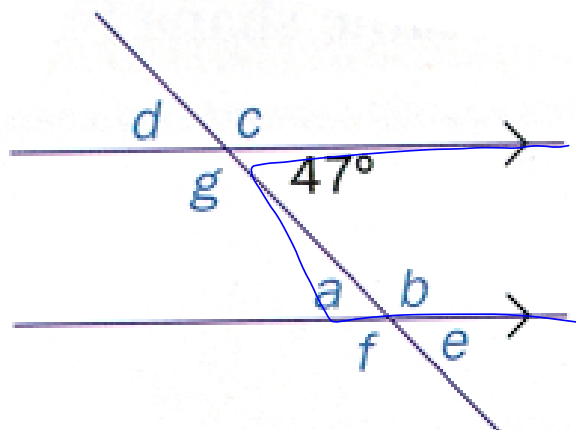


Determine the
measure of a

47°

What Theorem
Did You Use?

Z alternates

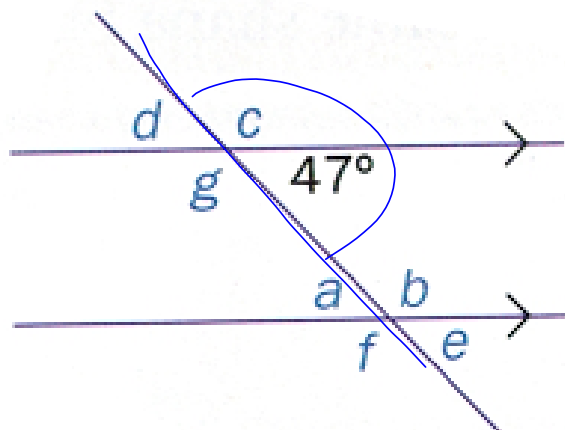


Determine the
measure of b

133°

What Theorem
Did You Use?

Co interior

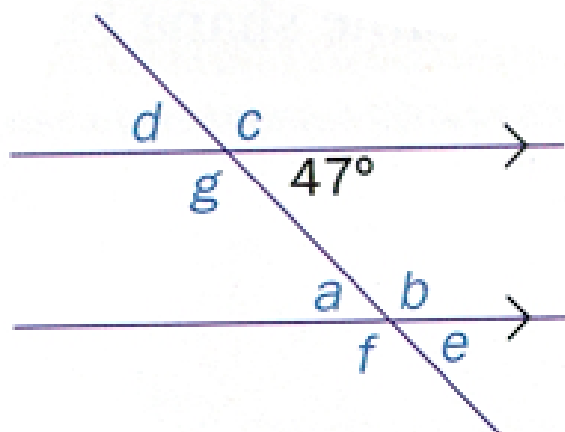


Determine the
measure of \sphericalangle

133°

What Theorem
Did You Use?

SAT

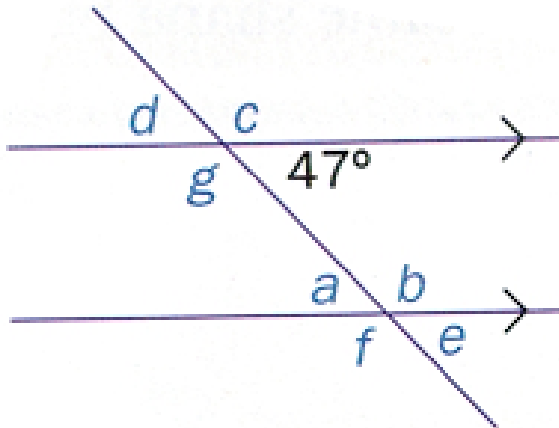


Determine the
measure of d

47°

What Theorem
Did You Use?

OAT

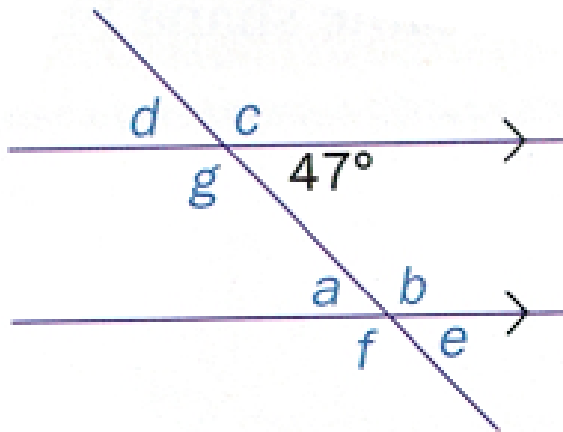


Determine the
measure of e

47°

What Theorem
Did You Use?

F - corresponding



Determine the
measure of f

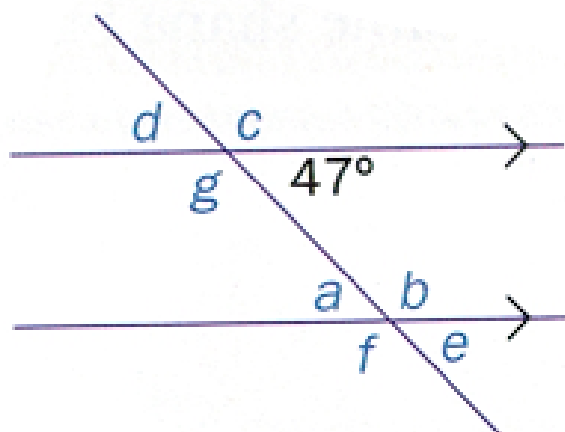
133°

What Theorem

Did You Use?

b → interior
f → opposite

a - 2 alternate
f - SAT

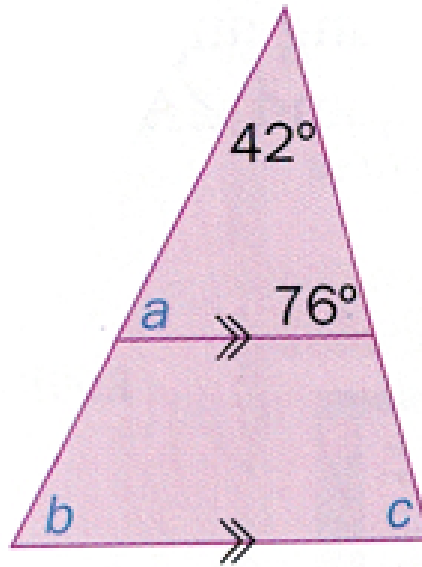


Determine the
measure of g

133°

What Theorem
Did You Use?

SAT



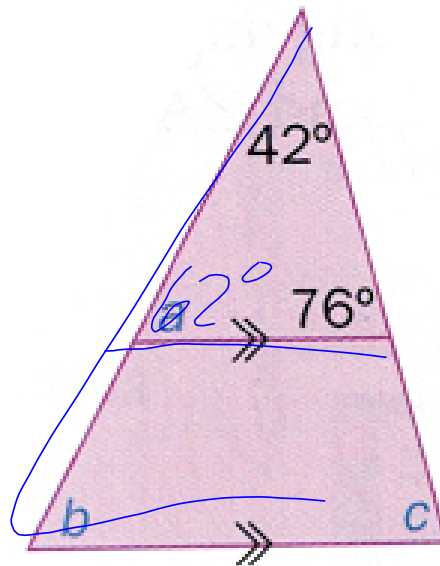
Determine the
measure of angle a.

$$180 - 42 - 76 \\ = 62^\circ$$

$$a = 62^\circ$$

What Theorem
Did You Use?

by IAT

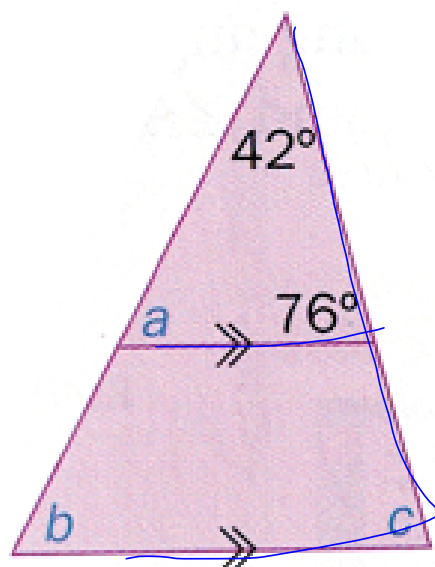


Determine the
measure of angle b.

62°

What Theorem
Did You Use?

F - corresponding

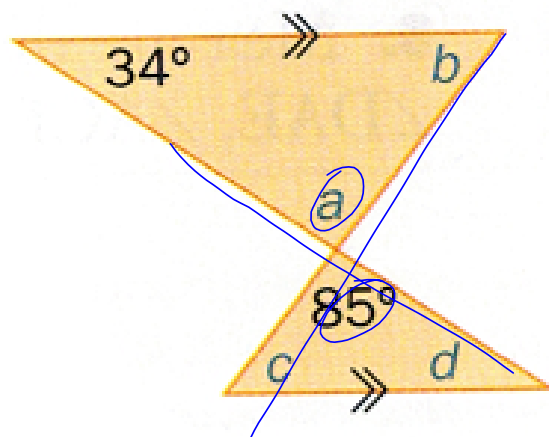


Determine the
measure of angle c.

76°

What Theorem
Did You Use?

F - corresponding

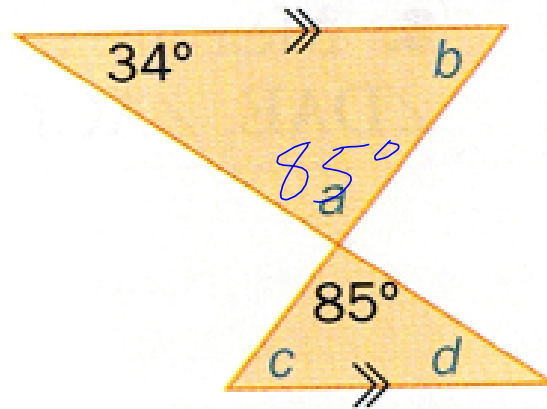


Determine the
measure of angle a.

85°

What Theorem
Did You Use?

OAT



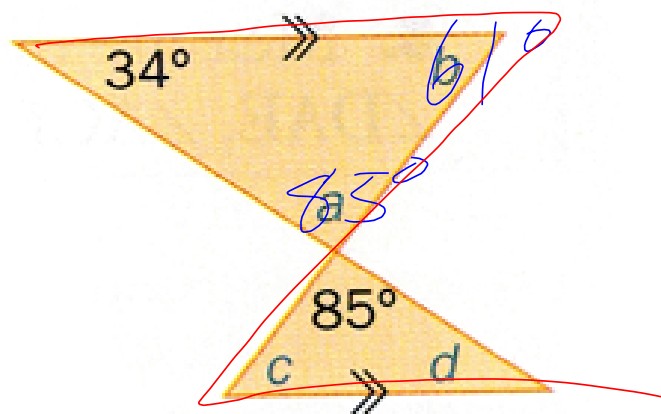
Determine the
measure of angle b.

$$180 - 85 - 34 = 61$$

$$b = 61^\circ$$

What Theorem
Did You Use?

IAT

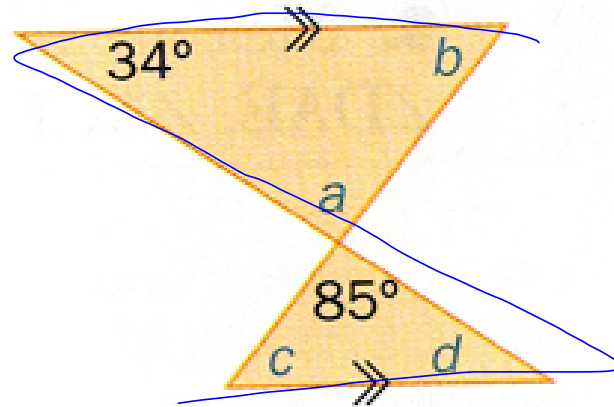


Determine the
measure of angle c.

61°

What Theorem
Did You Use?

Z - Alternates

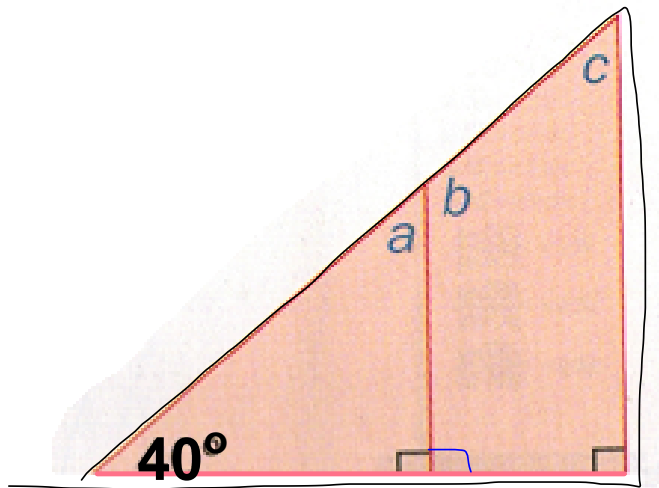


Determine the
measure of angle d.

34°

What Theorem
Did You Use?

Z alternates

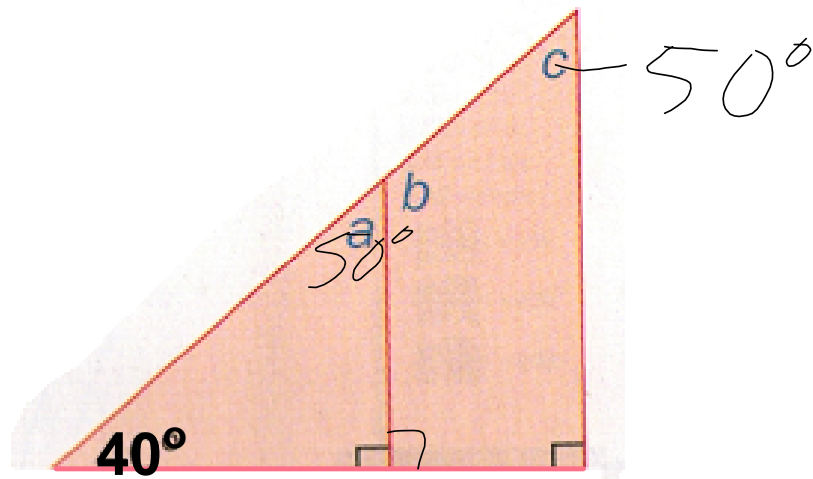


Determine the
measure of angle a.

$$180 - 40 - 90$$
$$a = 50^\circ \text{ by } \cancel{\text{IAT}}$$

What Theorem
Did You Use?

IAT

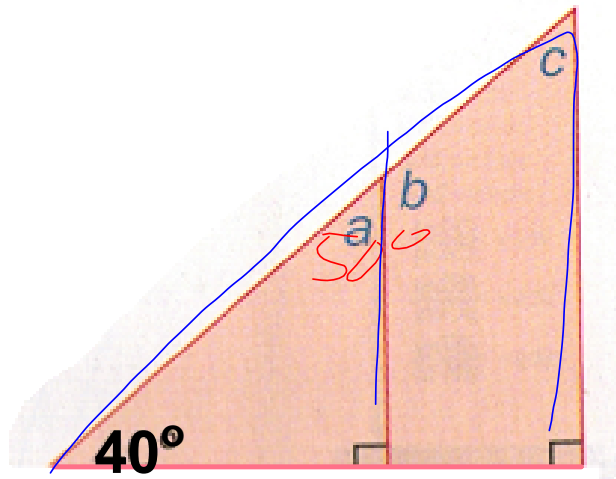


Determine the
measure of angle b.

$$180 - 50$$
$$b = 130^\circ$$

What Theorem
Did You Use?

SAT

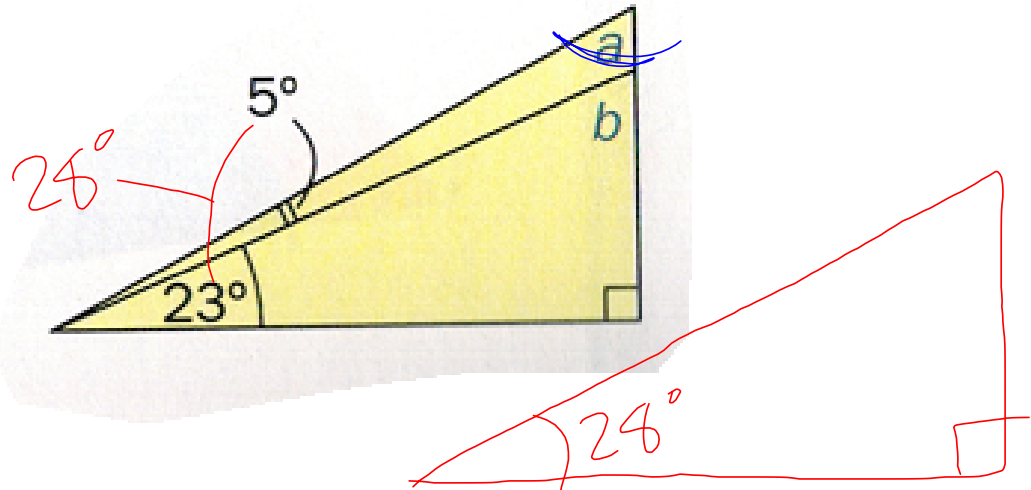


Determine the
measure of angle c.

50°

What Theorem
Did You Use?

F corresponding



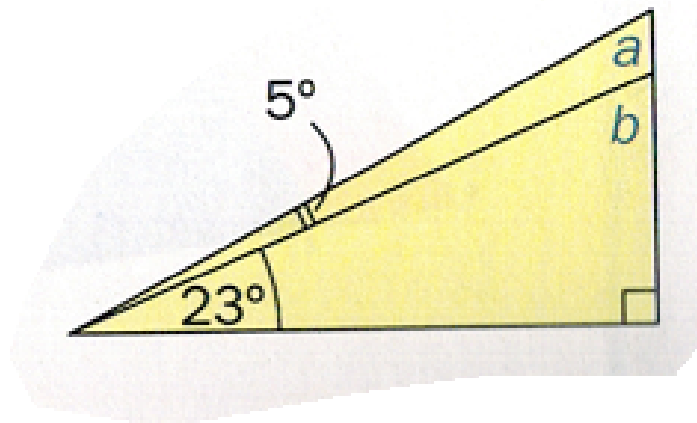
Determine the
measure of angle a.

$$180 - 90 - 23 - 5$$

$$62^\circ$$

What Theorem
Did You Use?

IAT

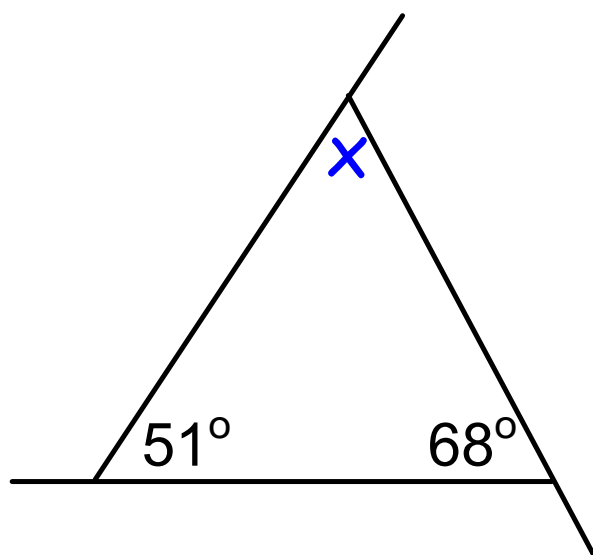


Determine the
measure of angle b.

$$180 - 90 - 23$$
$$b = 67^\circ$$

What Theorem
Did You Use?

IAT

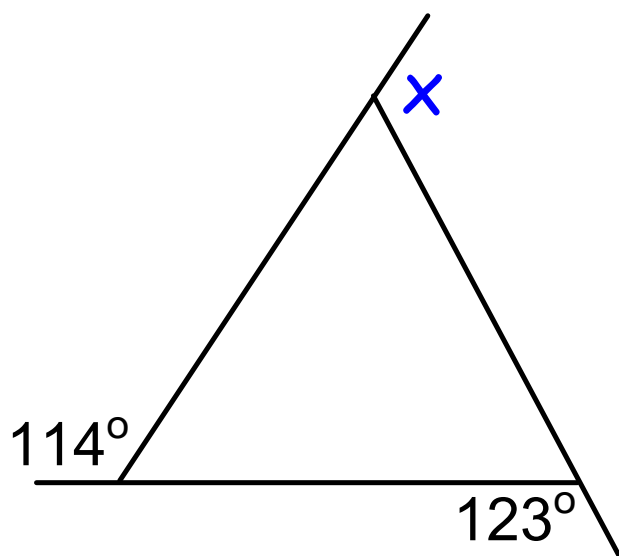


Determine the
measure of angle x.

61°

What Theorem
Did You Use?

IAT



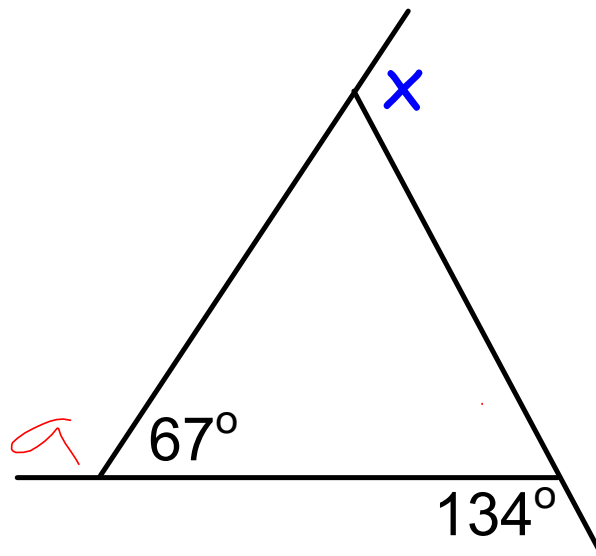
Determine the
measure of angle x.

$$360 - 114 - 123$$

$$123^\circ$$

What Theorem
Did You Use?

EAT

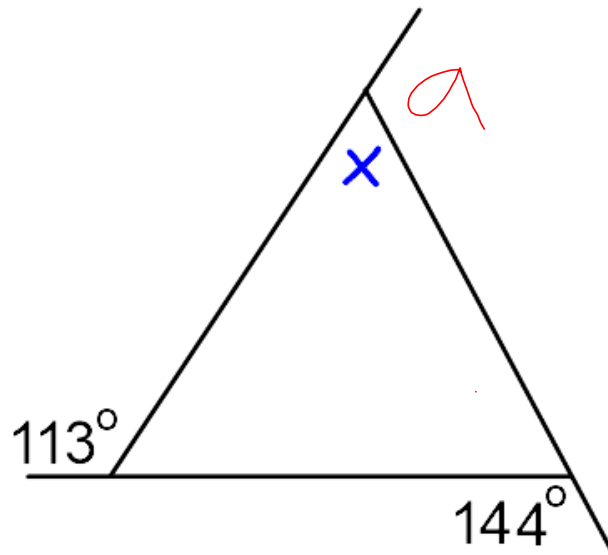


Determine the
measure of angle x.

113°

What Theorem
Did You Use?

SAT \rightarrow EAT



Determine the
measure of angle x .

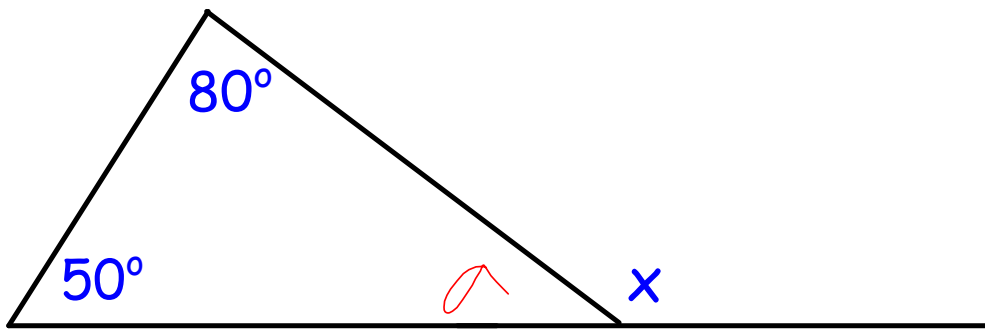
$$x = 77^\circ$$

What Theorem
Did You Use?

a: EAT
x: SAT

Minds on

One Last Little Thing

Find the measure of angle x 

$$\begin{aligned} a &= 180 - 80 - 50 \\ &= 50^\circ \text{ by IAT} \end{aligned}$$

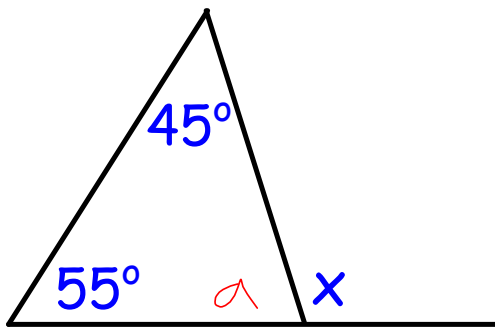
$$\begin{aligned} x &= 180 - 50 \\ &= 130^\circ \text{ by SAT} \end{aligned}$$

$$\therefore x = 130^\circ$$

Minds on

One Last Little Thing

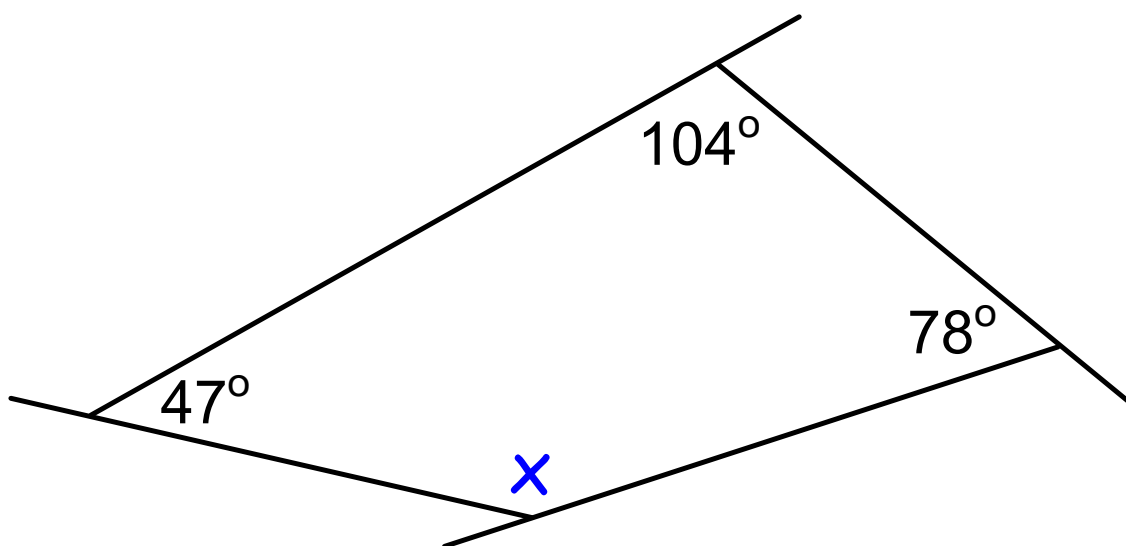
Find the measure of angle x



$$a = 180 - 55 - 45$$
$$a = 80^\circ \text{ by IAT}$$

$$x = 180 - 80$$
$$x = 100^\circ \text{ by SAT}$$

$$\therefore x = 100^\circ$$

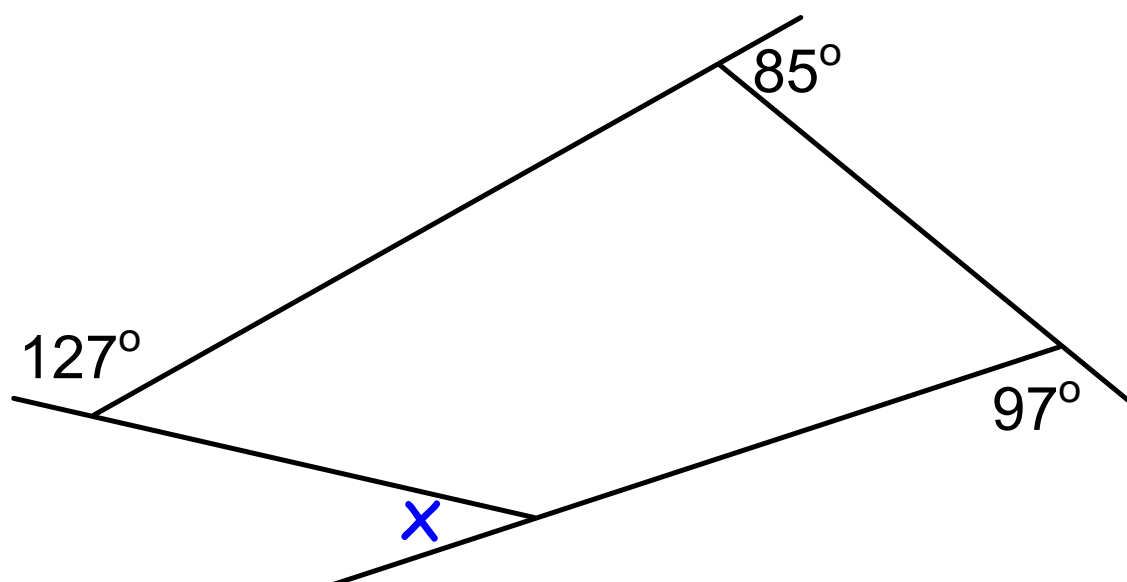


Determine the
measure of angle x.

131°

What Theorem
Did You Use?

IIAT

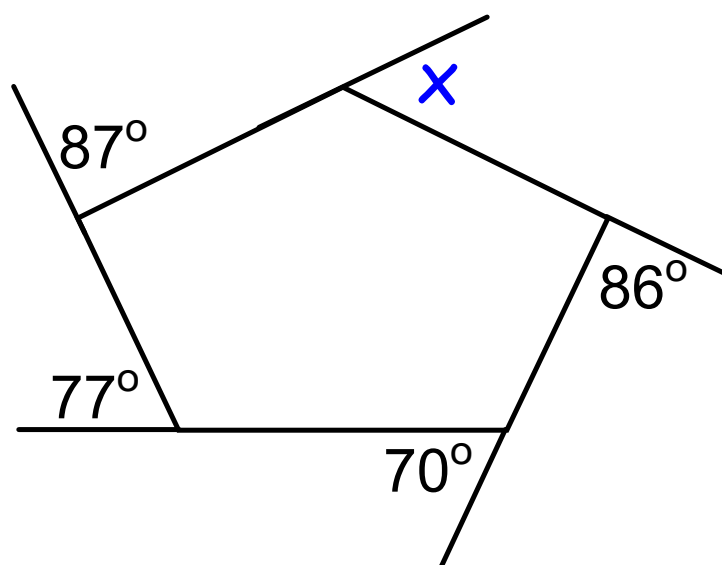


Determine the
measure of angle x.

$$x = 51^\circ$$

What Theorem
Did You Use?

EAT

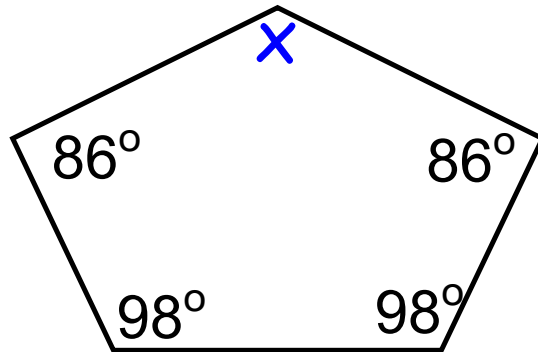


Determine the
measure of angle x.

40°

What Theorem
Did You Use?

EAT



Determine the
measure of angle x .

$$\begin{aligned} * S &= 180(n-2) \\ S &= 180(3) \end{aligned}$$

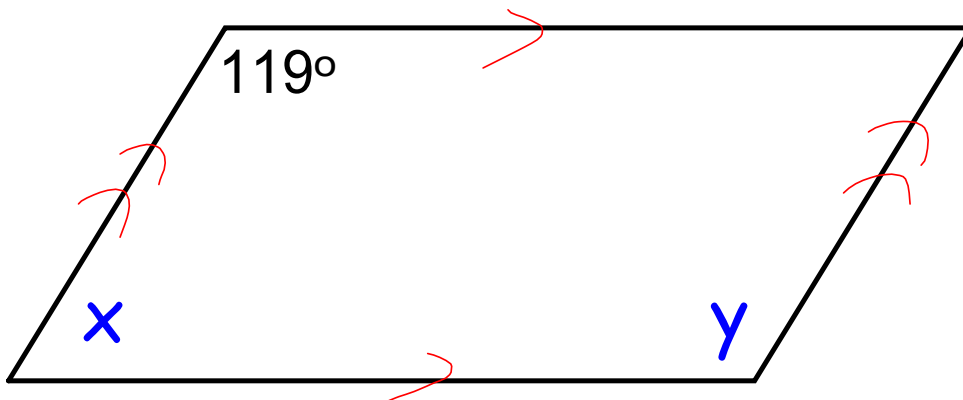
$$S = 540^\circ$$

$$\begin{aligned} 540 &- 86 - 86 \\ &- 98 - 98 \end{aligned}$$

$$x = 172^\circ$$

What Theorem
Did You Use?

IAT



Determine the
measure of angle x
and y .

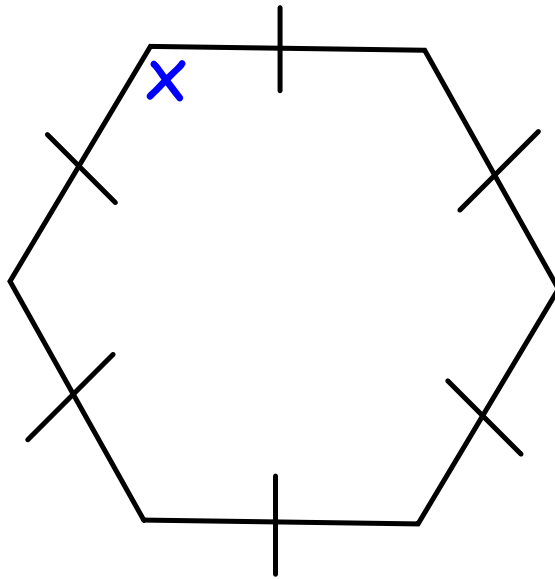
$$x = 180 - 119 \\ = 61^\circ$$

What Theorems
Did You Use?

co-interior

$$y = 119^\circ$$

opposite angles
in parallelogram



Determine the
measure of angle x.

$$\begin{aligned} S &= 180(n-2) \\ S &= 180(6-2) \\ S &= 720^\circ \end{aligned}$$

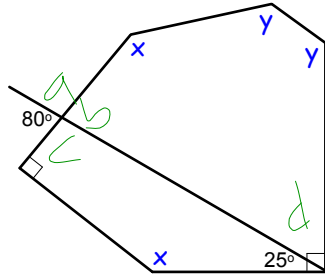
$$\frac{720}{6}$$

$$x = 120^\circ$$

What Theorem
Did You Use?

→ IAT

regular
polygon



Determine the measure of angle x and y .

$a: 100^\circ$ by SAT
 $b: 40^\circ$ by OAT
 $c: 100^\circ$ by SAT or OAT

$$x = 360 - 90 - 100 - 25$$

$$= 145^\circ \text{ by IAT}$$

$d: 65^\circ$ by CAT

$$S = 180(5-2)$$

$$= 540^\circ \text{ by IAT}$$

$$540 - 90 - 65 - 145$$

$$= 250$$

$$\frac{250}{2} = 125$$

because same angle
 $\therefore y = 125^\circ$

Consolidation

Assignment Return