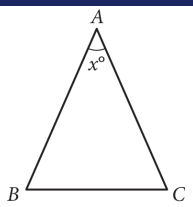
ID: c8d60e48



In the given triangle, $AB = AC$ and $\angle ABC$ has a measure of $67°$. What is the value of x?

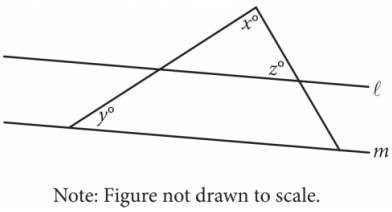
A. 36

B. 46

C. 58

D. 70

ID: a6dbad6b



Note: Figure not drawn to scale.

In the figure above, lines ℓ and m are parallel, $y = 20$, and $z = 60$. What is the value of x ?

A. 120

B. 100

C. 90

D. 80

ID: cbe8ca31

In $\triangle XYZ$, the measure of $\angle X$ is 24° and the measure of $\angle Y$ is 98°. What is the measure of $\angle Z$?

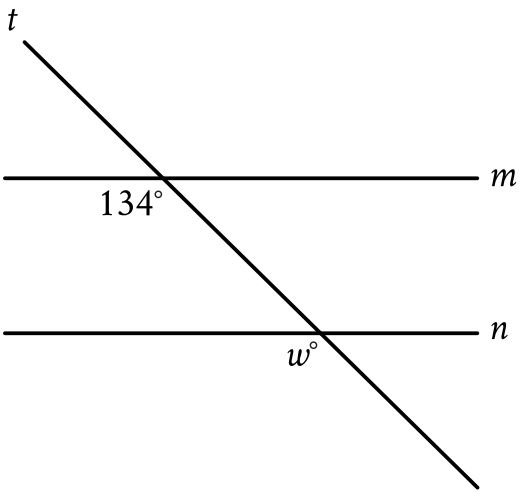
A. 58°

B. 74°

C. 122°

D. 212°

ID: c24e1bda



Note: Figure not drawn to scale.

In the figure, line m is parallel to line n. What is the value of w?

A. **13**

B. **34**

C. **66**

D. **134**

ID: f9d40000

In $\triangle XYZ$, the measure of $\angle X$ is 23° and the measure of $\angle Y$ is 66°. What is the measure of $\angle Z$?

A. 43°

B. 89°

C. 91°

D. 179°

ID: 3563d76d

At a certain time and day, the Washington Monument in Washington, DC, casts a shadow that is 300 feet long. At the same time, a nearby cherry tree casts a shadow that is 16 feet long. Given that the Washington Monument is approximately 555 feet tall, which of the following is closest to the height, in feet, of the cherry tree?

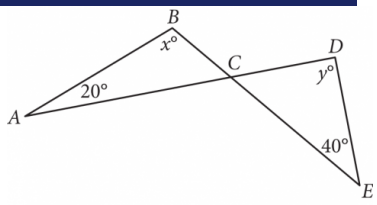
A. 10

B. 20

C. 30

D. 35

ID: dfc420b2



Note: Figure not drawn to scale.

In the figure above, $\overline{AD}$ intersects $\overline{BE}$ at C. If $x = 100$, what is the value of y ?

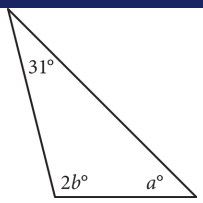
A. 100

B. 90

C. 80

D. 60

ID: 410bdbe6



In the triangle above, $a = 45$. What is the value of b ?

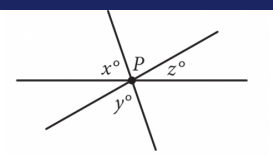
A. 52

B. 59

C. 76

D. 104

ID: 087cdcfd



Note: Figure not drawn to scale.

In the figure, three lines intersect at point *P*. If $x = 65$ and $y = 75$, what is the value of *z* ?

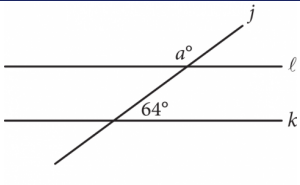
A. 140

B. 80

C. 40

D. 20

ID: 992f4e93



Note: Figure not drawn to scale.

In the figure above, lines ℓ and k are parallel.

What is the value of a ?

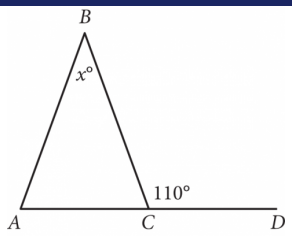
A. 26

B. 64

C. 116

D. 154

ID: 5733ce30



In the given figure, $\overline{AC}$ extends to point *D*. If the measure of $\angle BAC$ is equal to the measure of $\angle BCA$, what is the value of *x* ?

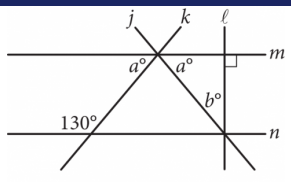
A. 110

B. 70

C. 55

D. 40

ID: 3828f53d



Note: Figure not drawn to scale.

In the figure above, lines m and n are parallel.
What is the value of b ?

A. 40

B. 50

C. 65

D. 80

ID: 42b4493b

In a right triangle, the measure of one of the acute angles is 51°. What is the measure, in degrees, of the other acute angle?

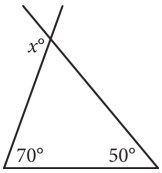
A. 6

B. 39

C. 49

D. 51

ID: 36200a38



In the figure above, two sides of a triangle are extended. What is the value of x ?

A. 110

B. 120

C. 130

D. 140