---

12 in.

12 in.

x

20 in.

The value of x is _____ .

Give answer as a RADICAL not a decimal.

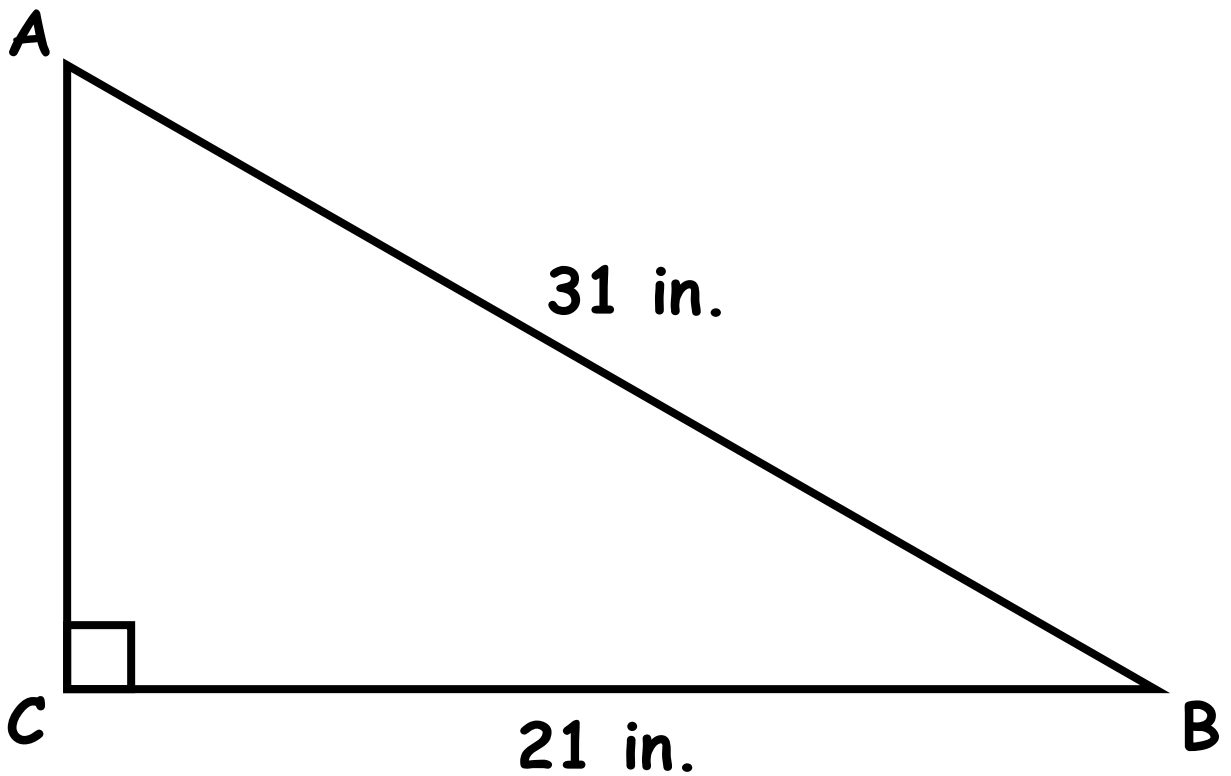$$2\sqrt{2}, 2\sqrt{2}$$

A

32 in.

19 in.

C

B
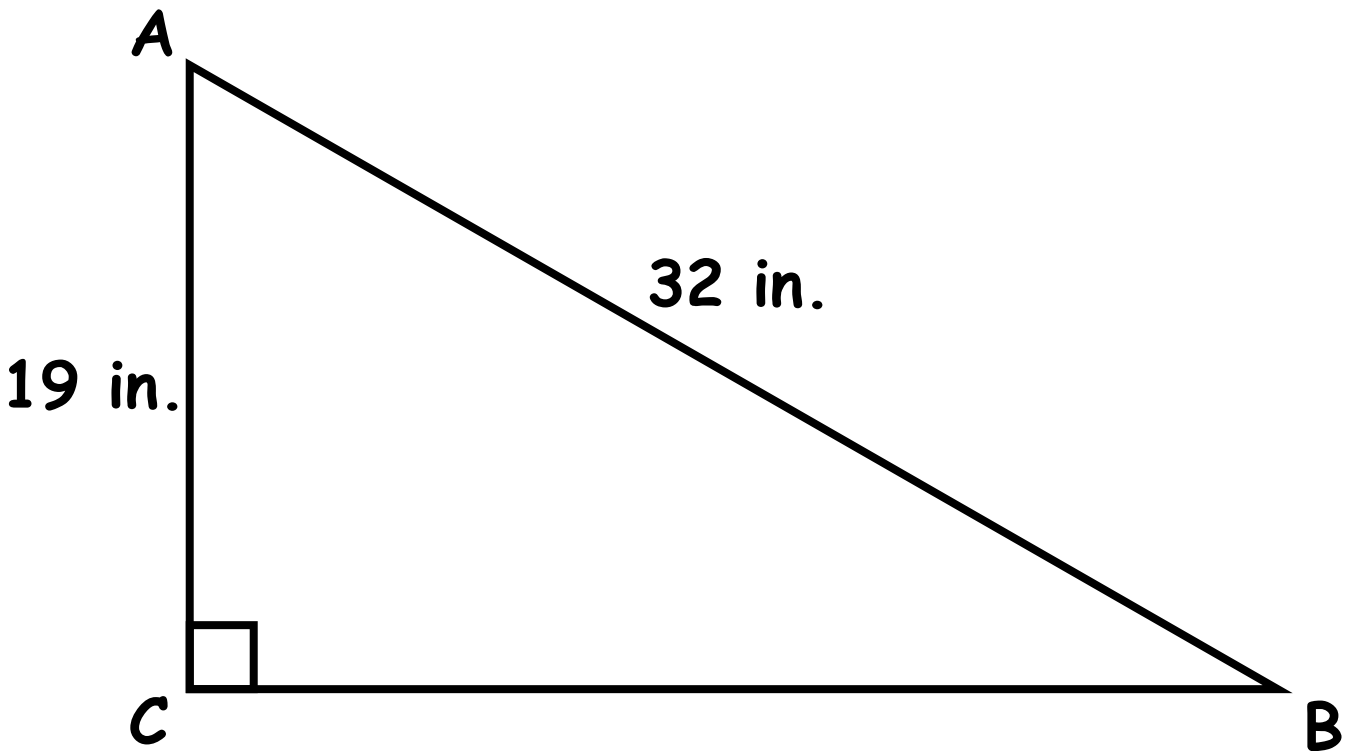
The measure of $\angle B$ is ___
(to the nearest tenth of a degree).

C 14√2

A

31 in.

C

21 in.

B

The measure of $\overline{AC}$ is _____ .
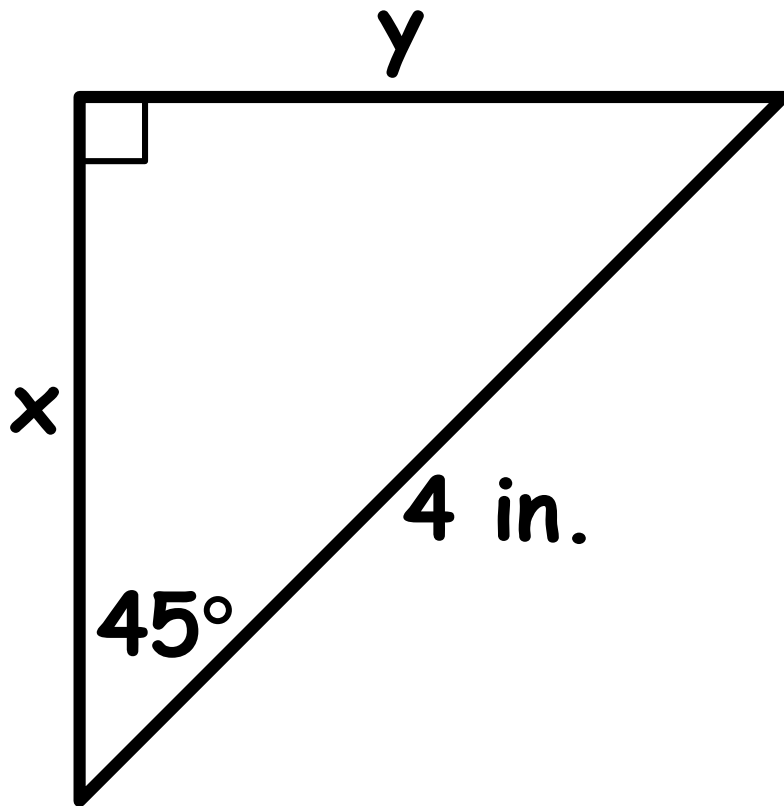
Give answer as a RADICAL not a decimal.

D

5

The angle of depression from the top of a 120 ft building to a pitcher in a baseball game is 42°.
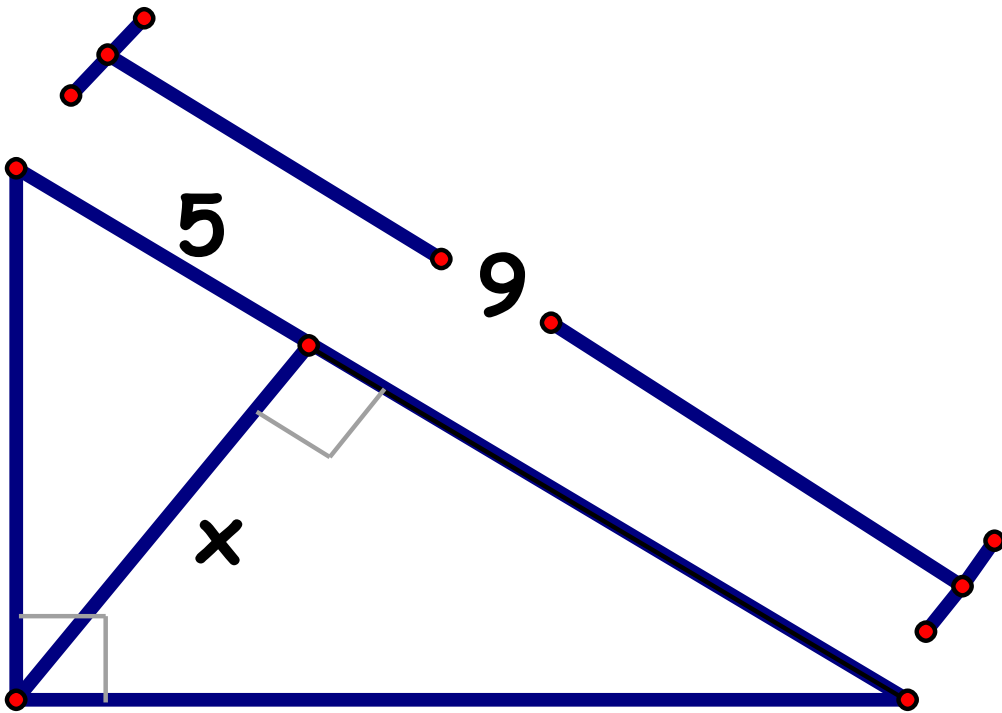
Approximately how far is the pitcher
from the building?

E

ACUTE

The values of x and y are _____ . Give
answers as RADICALS not decimals.

$$\sqrt{41} \ \text{in.}$$

The measure of x is _____ .

Give answer as a RADICAL not a decimal.
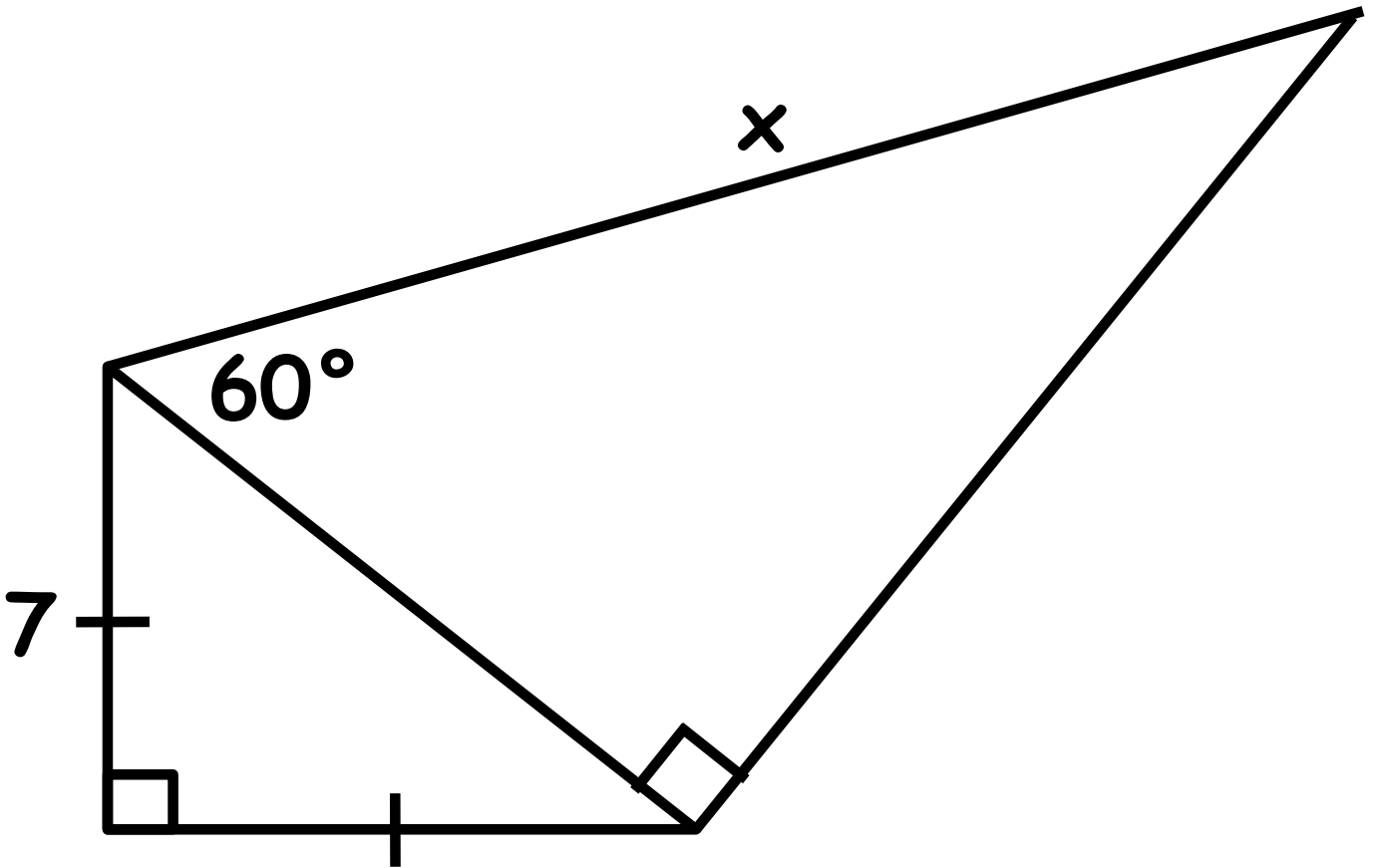
G

$$34\sqrt{2} \text{ in.}$$

Computer monitors are measured along the diagonal of the screen. A 19-inch monitor has a diagonal that measures 19 inches. If the height of the screen is 11.5 inches, how wide is the screen (to the nearest tenth of an inch)?

H

RIGHT

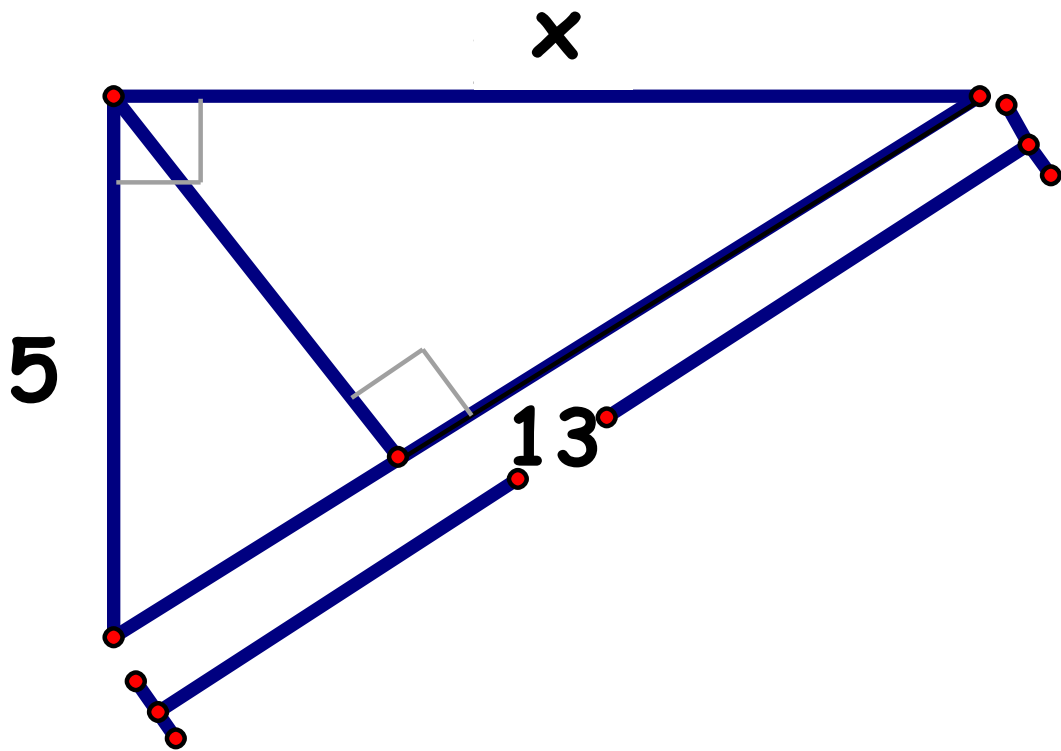Is a triangle with the side lengths listed below right, acute, obtuse or not possible?

14 cm., 24 cm., 36 cm.

x

60°

7

Find the value of x. Express your answer in simplest radical form.

J $3, \ 3\sqrt{3}$

x
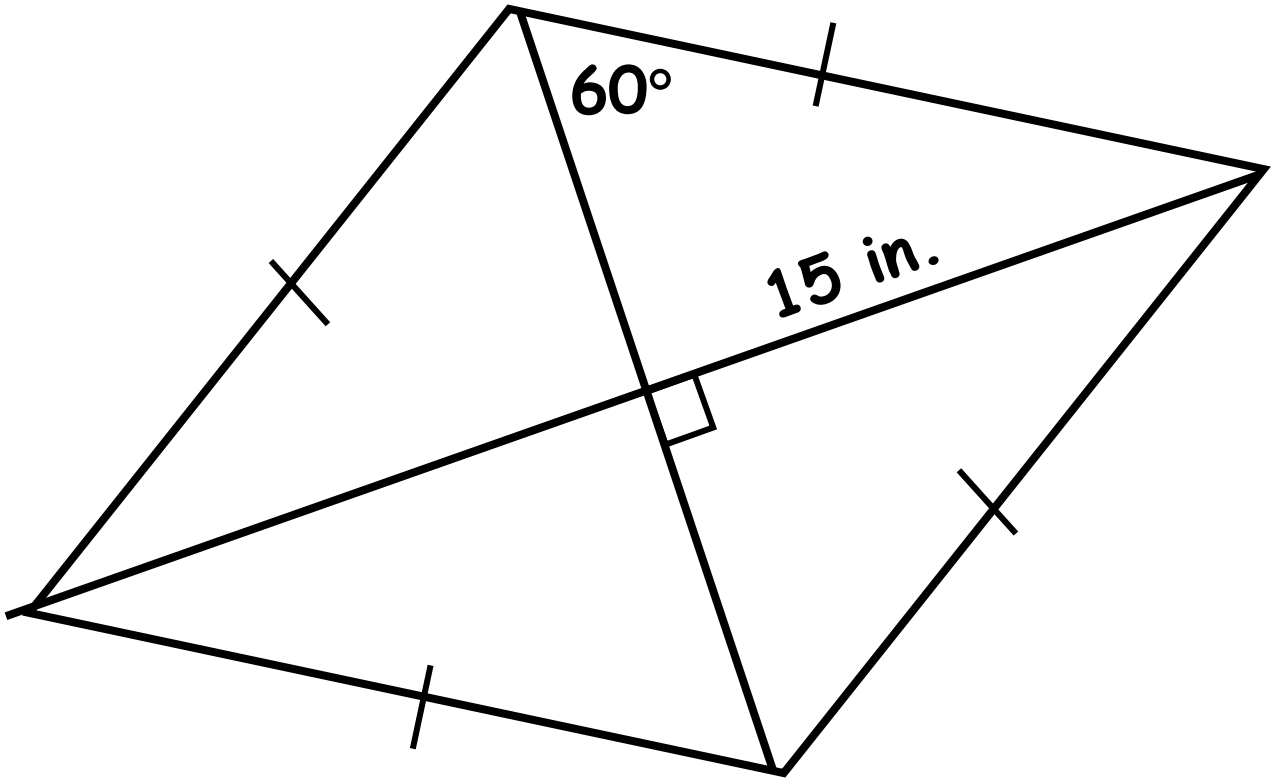
5

13

The value of x is _____ .

Express each radical expression in its simplest form.
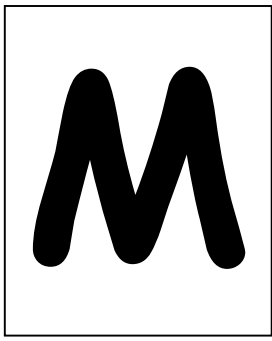
a) $(2\sqrt{5})(3\sqrt{15})$

b) $\dfrac{2}{\sqrt{18}}$

L

15.9 , 19.9

The perimeter of this rhombus is ___ .

Give answer as a RADICAL not a decimal.

Is a triangle with the side lengths listed below right, acute, obtuse or not possible?

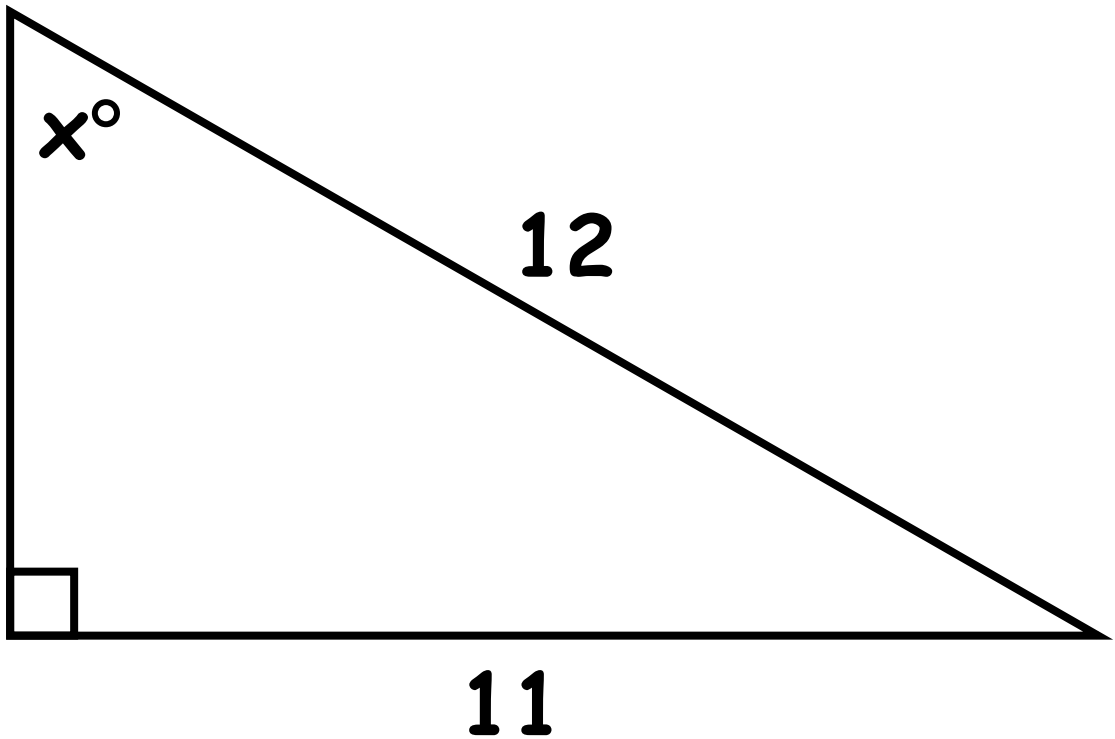$$\frac{5}{13}, \ 1, \ \frac{12}{13}$$

$40\sqrt{3}$ in.

A sailboat is a half mile from the base of a lighthouse. What is the angle of depression from the top of the 120-foot lighthouse to the sailboat (to the nearest tenth of a degree)?

O

OBTUSE

x°
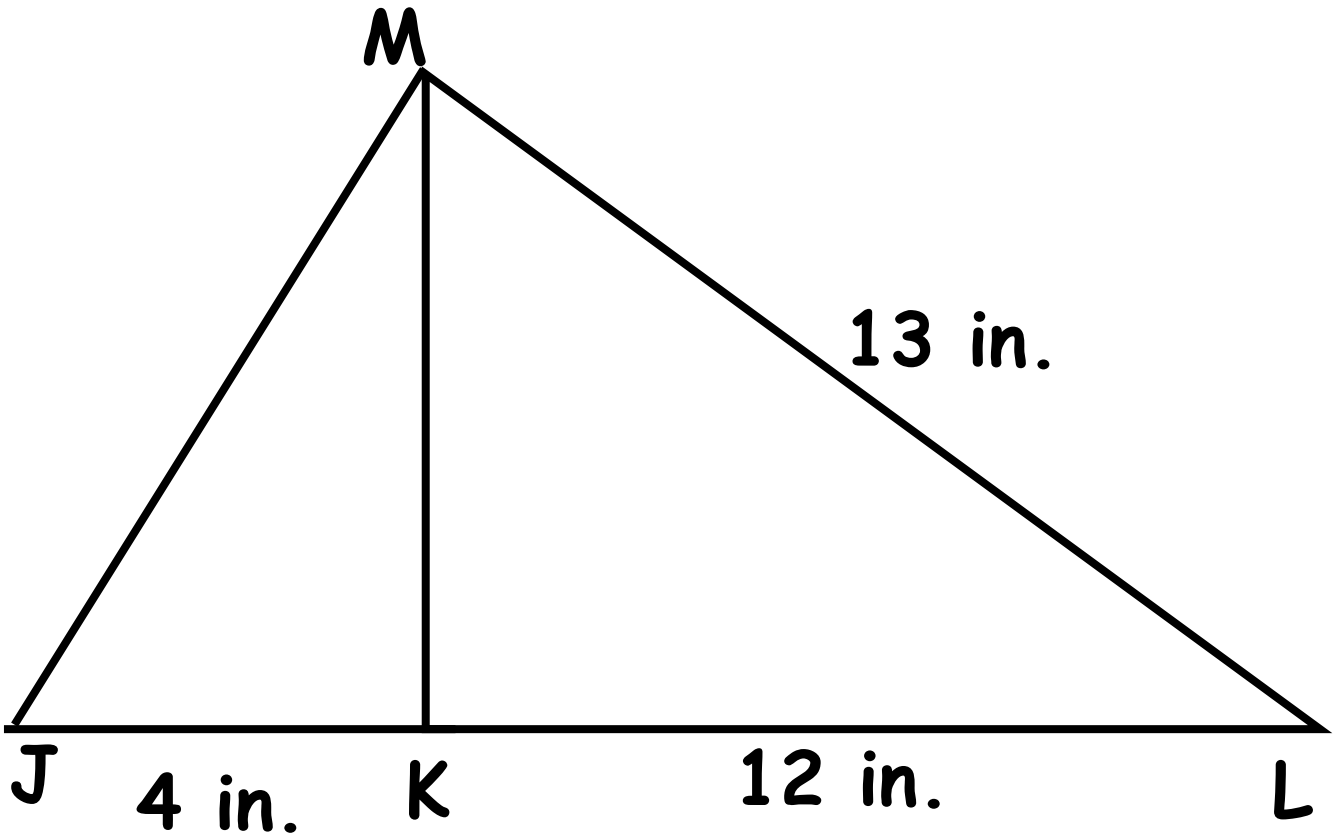
12

11

The value of x is _____ .
(rounded to the nearest tenth)

A lizard is 50 feet from the base of his favorite tree. He has to look up at an angle of 57° to look directly at the top of the tree.
How tall is his tree to the nearest foot?

Q $2\sqrt{11}$ in.

M

13 in.

J 4 in. K 12 in. L

$\overline{MK} \perp \overline{JL}.$ The measure of JM is ___ .
Express your answer in simplest
radical form
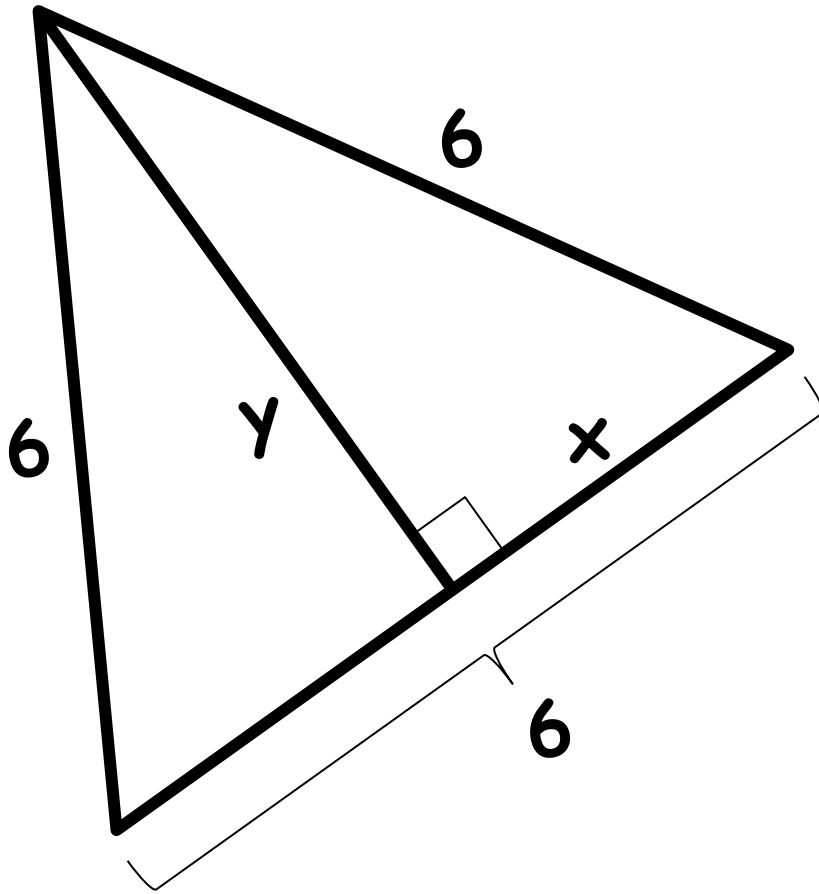
$$2\sqrt{130}\ \text{in.}$$

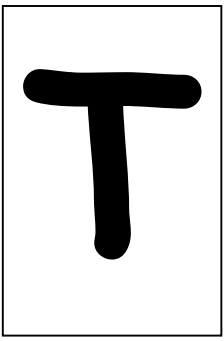The diagonal of a square is 17 inches. Find its perimeter.

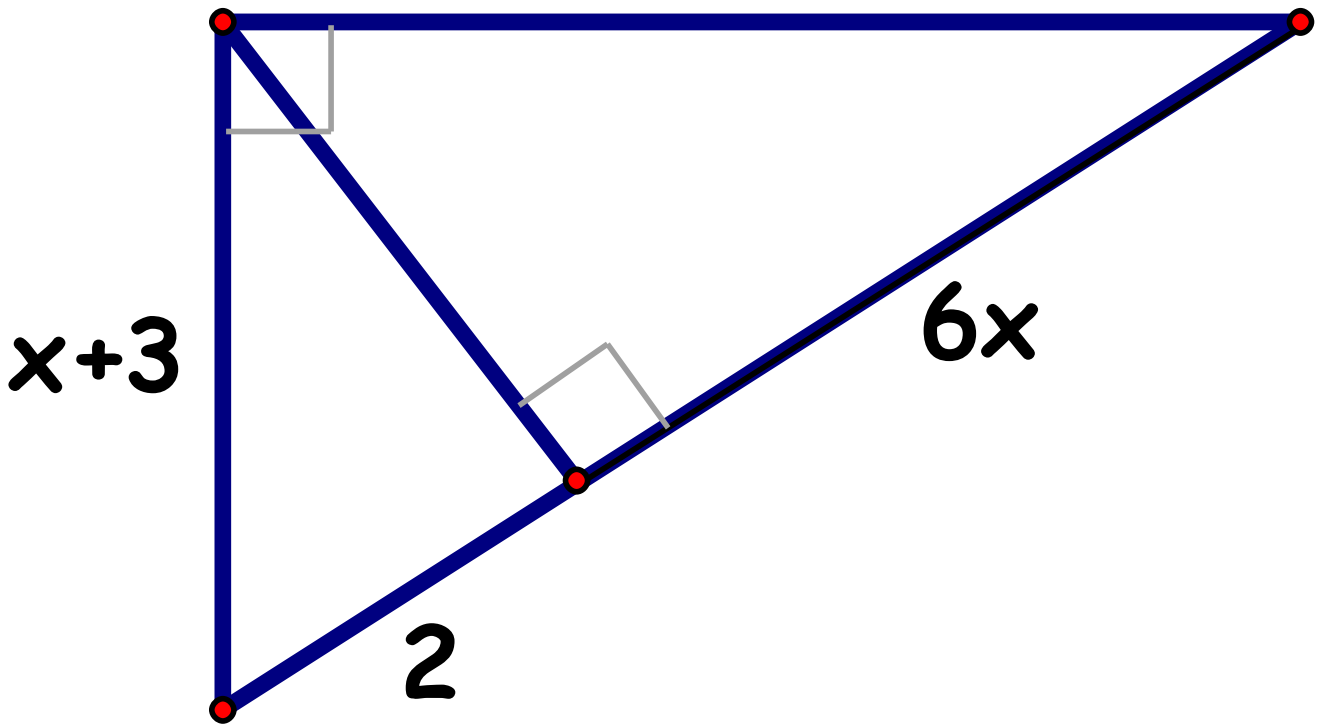Give answer as a RADICAL not a decimal.

The values of x and y are _____ . Give answers as RADICALS not decimals.
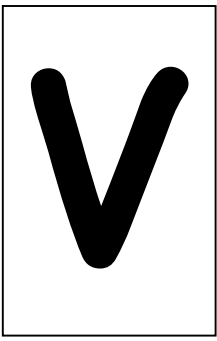
36.4°

Find x.

x+3

6x

2

15.1 in.

The altitude of an equilateral triangle is 24 inches. Find its perimeter.

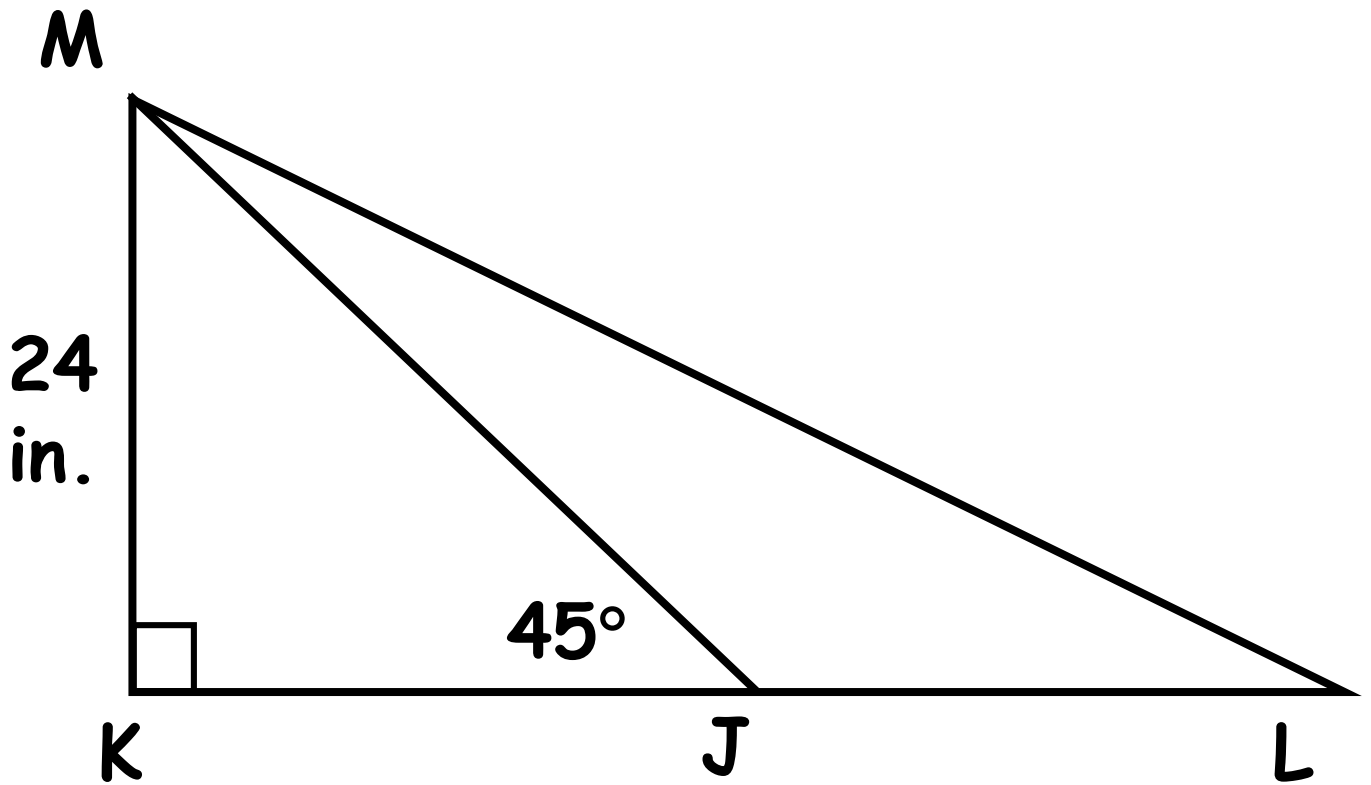Give answer as a RADICAL not a decimal.

$\boxed{V}$ 77 ft.

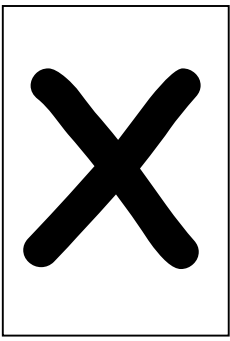Write each radical expression in its simplest form.

a) $\sqrt{72} + \sqrt{32}$

b) $\sqrt{\dfrac{5}{12}}$

M
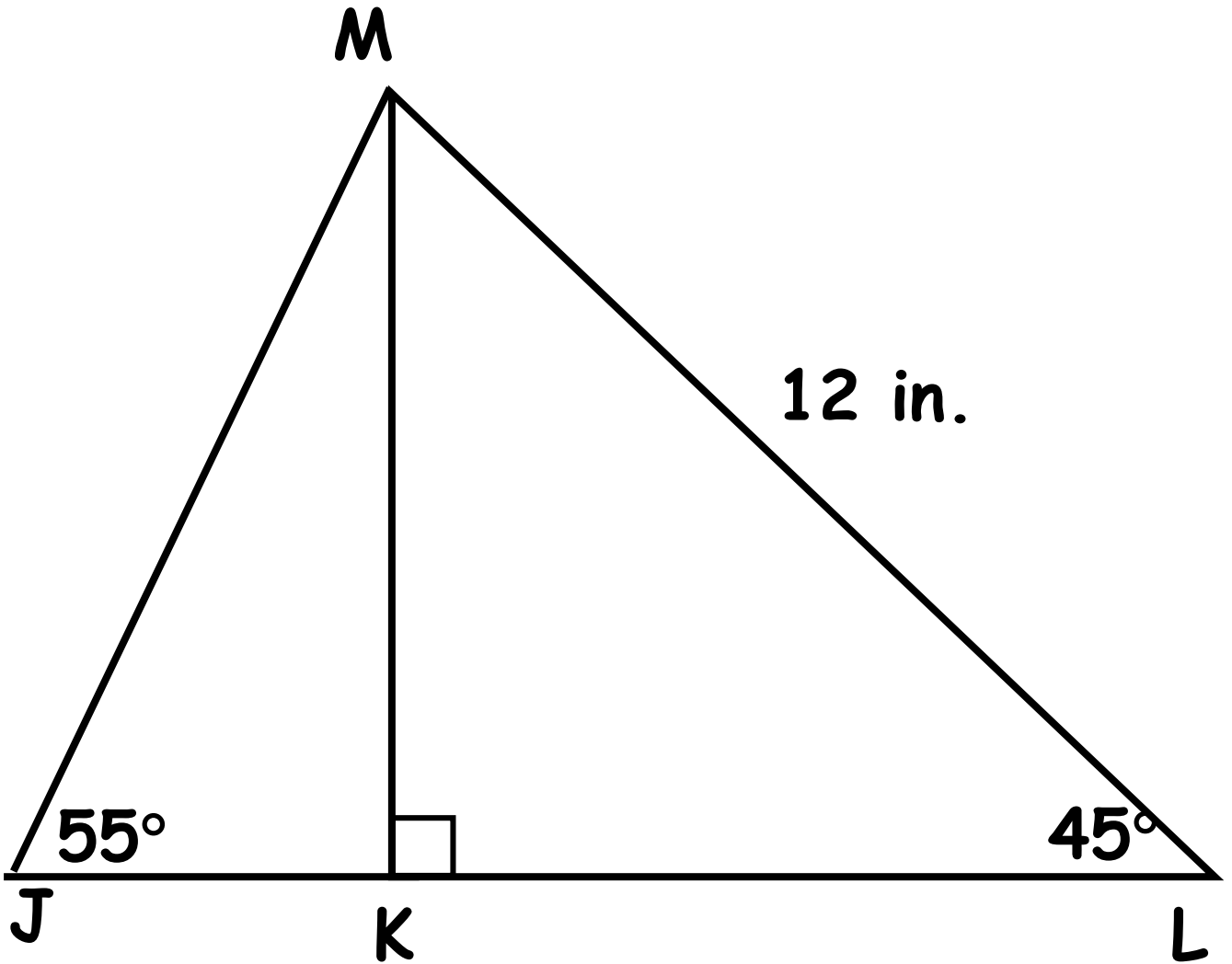
24
in.

45°

K   J   L

The angle of elevation from L to M is **38°**. The length of JL is _____ . (rounded to the nearest tenth)

M

12 in.

55°

45°

J

K

L

The length of $\overline{JM}$ is _____ .
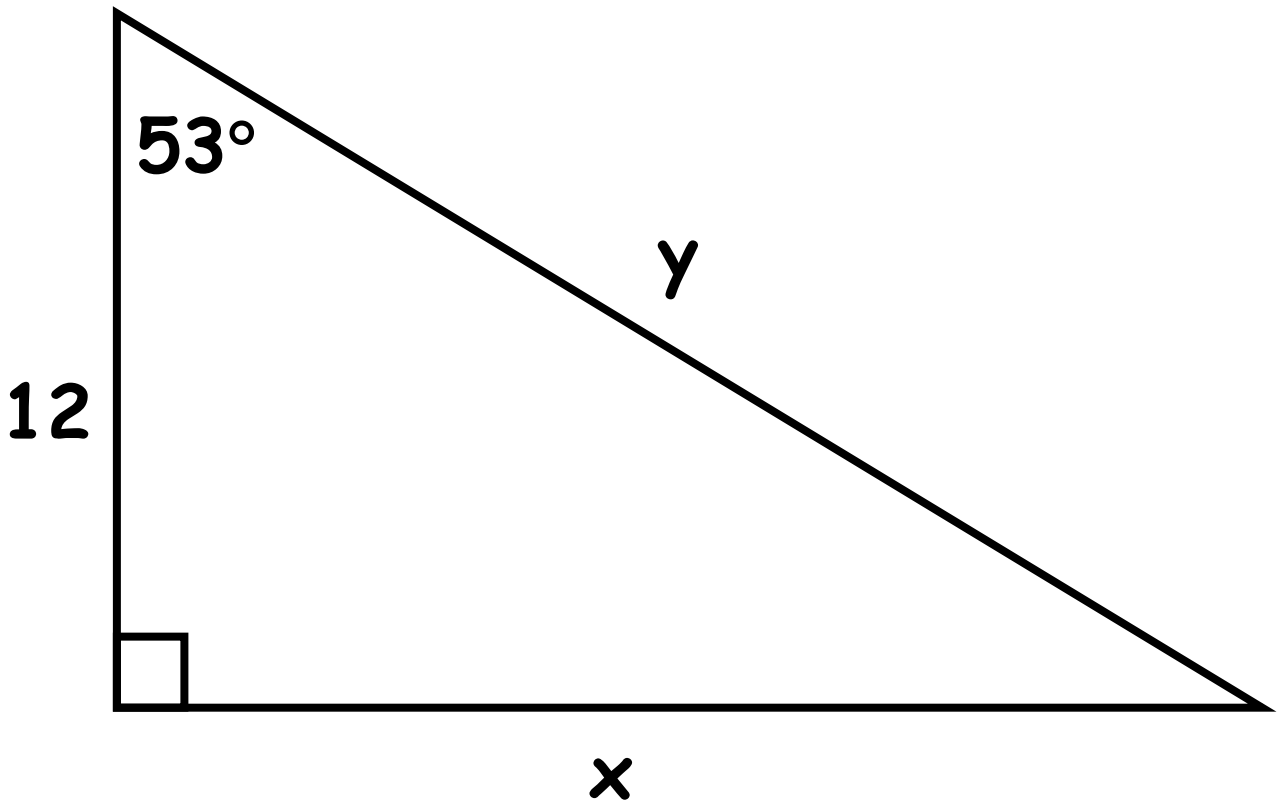(rounded to the nearest tenth)

$$Y \quad 30\sqrt{3}, \ \frac{\sqrt{2}}{3}$$

Is a triangle with the side lengths listed below right, acute, obtuse or not possible?

$$7, \ \sqrt{15}, \ 5\sqrt{2}$$

Z

12

53°

y

12

x

The values of x and y are _____ .
(rounded to the nearest tenth)

A Q F P V S J Z L N W K Y E B T D M H O X I C R G U back to A.

Question	Work	Answer & Letter

Triangles - Scavenger Hunt Recording

Names: _____

Scavenger Hunt Path Taken

↓	↓	↓	↓
↓	↓	↓	
↓	↓	↓	
↓	↓	↓	
↓	↓	↓	
↓	↓	↓	
↓	↓	↓	