

JEOPARDY!



\$100

\$100

\$100

\$100

\$100

\$200

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\$500

\$500

**Are They
Similar?**

Side-Splitter and More

Finding the Missing Piece

Area and Perimeter

Similarity in Right Triangles

Are they
Similar?

Side-Splitter
and More

Find the
Missing Piece

Area and
Perimeter

Right Triangle
Similarity

\$100

\$100

\$100

\$100

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\$200

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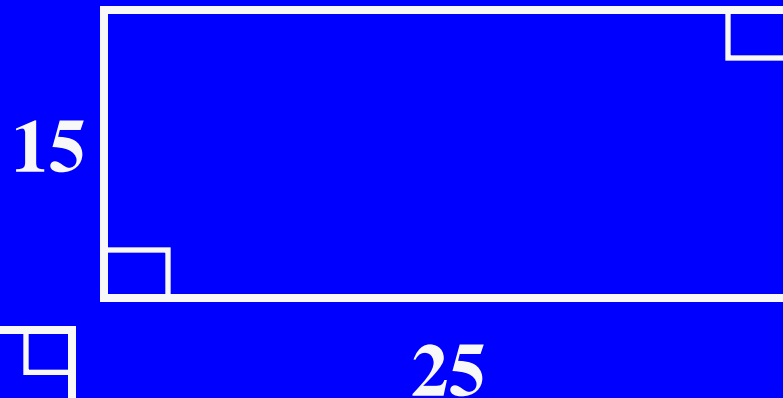
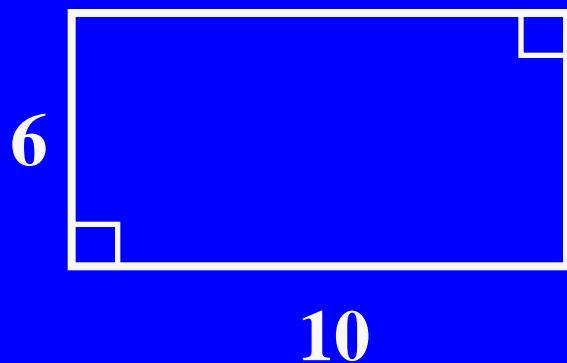
\$500



CATEGORY 1 - \$100

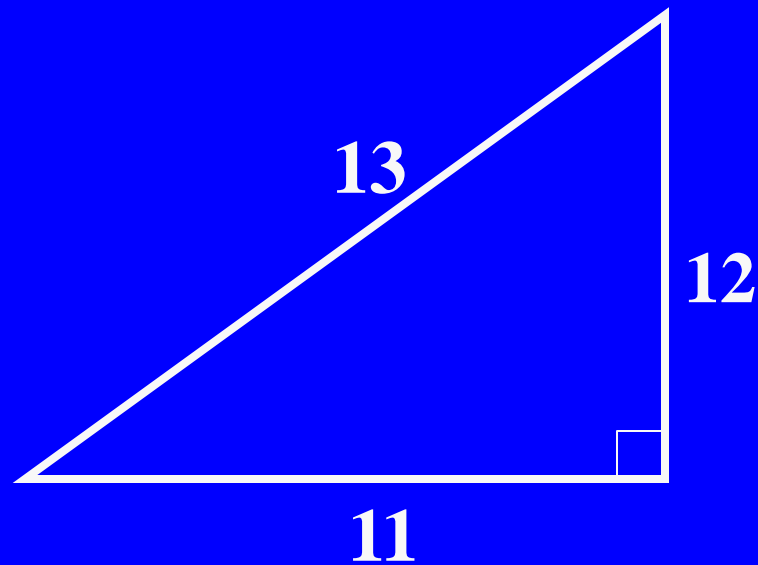
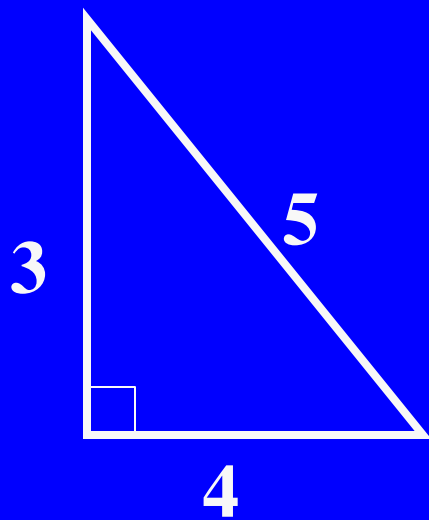


Determine whether the pair of polygons are similar. Justify your answer.





Are these 2 triangles similar? Justify your answer.





Complete the following when
 $\triangle IJK \sim \triangle LMN$.

$$\frac{IK}{KJ} = \frac{\quad}{NM}$$



CATEGORY 1 - \$400



From 1861 to 1928, U.S. currency measured 7.42 in. by 3.13 in. The dimensions of a current bill are shown below. Are the old and new bills similar rectangles?



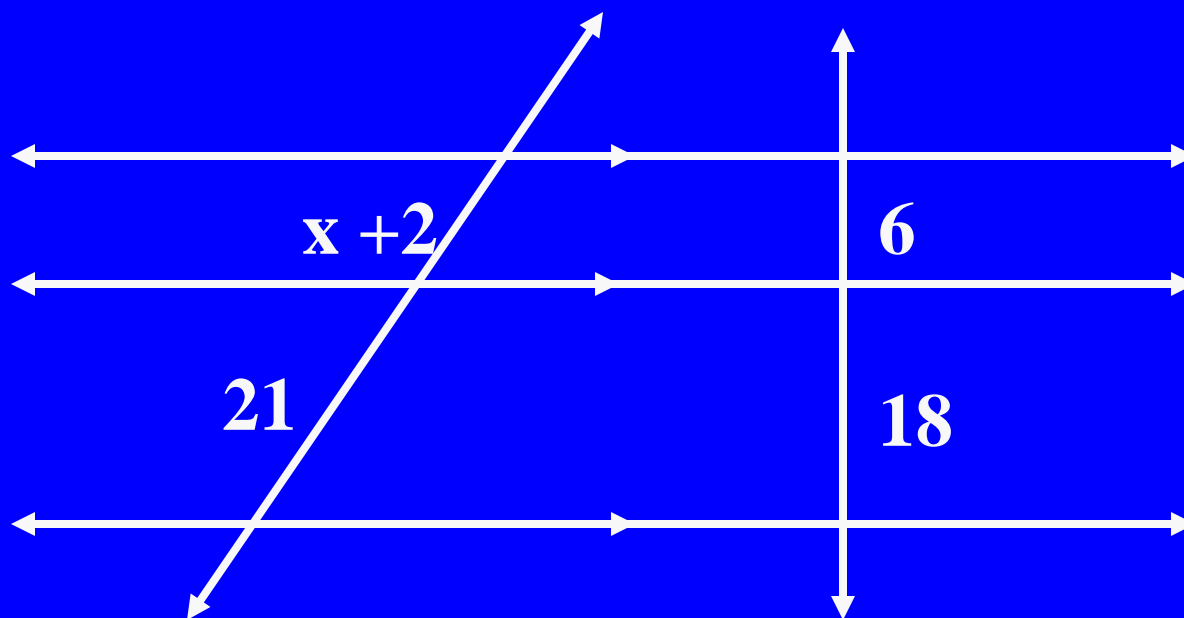


A map has dimensions 9 in. by 15 in.
You want to reduce the map so that it
will fit on a 4 in. by 6 in. index card.
What are the dimensions of the
largest possible complete map that
you can fit on the index card?



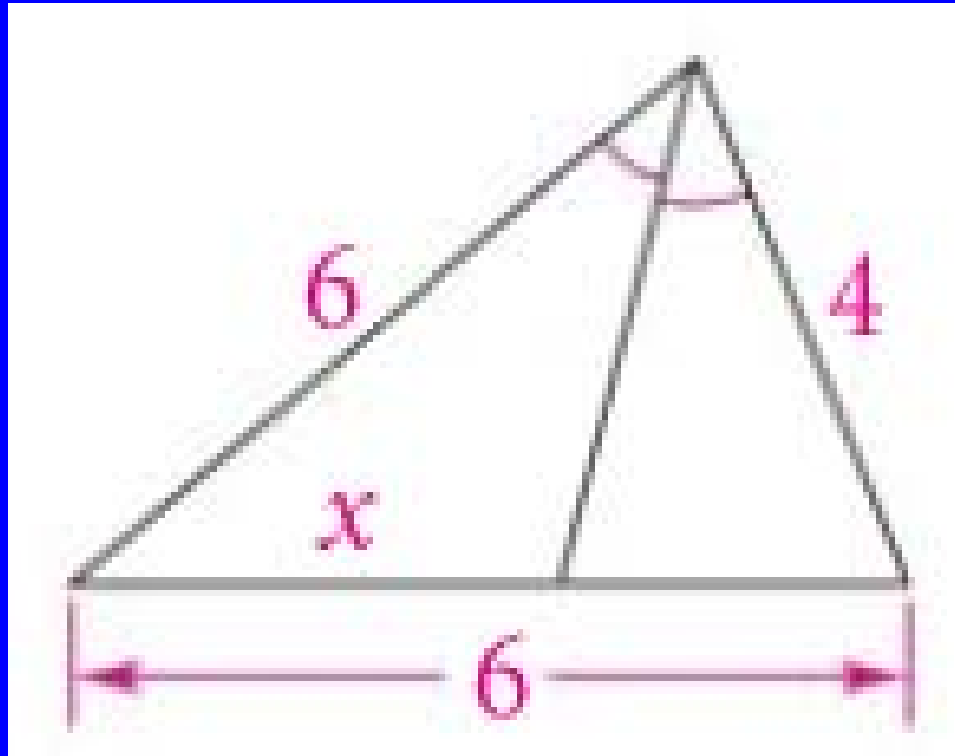


What is the value of x ?



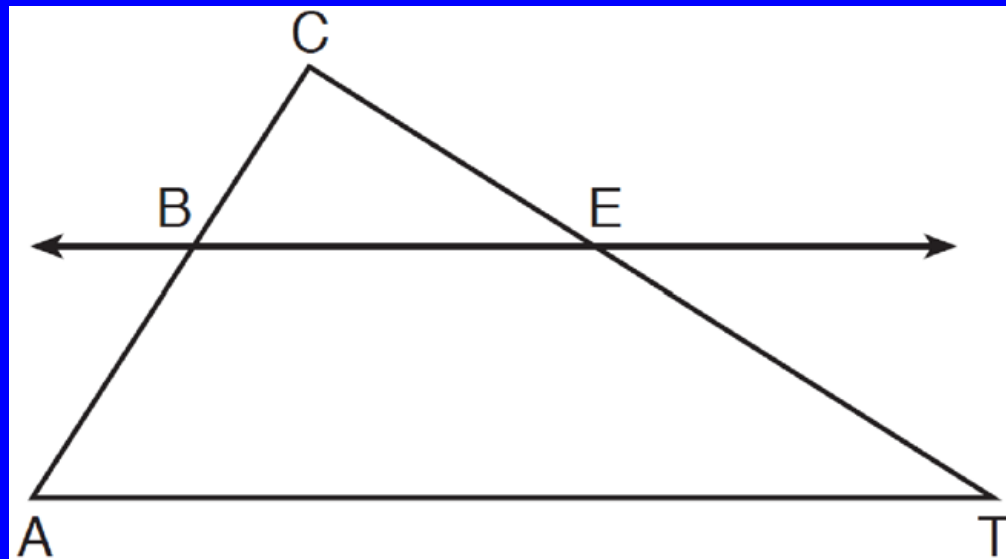


Solve for x .



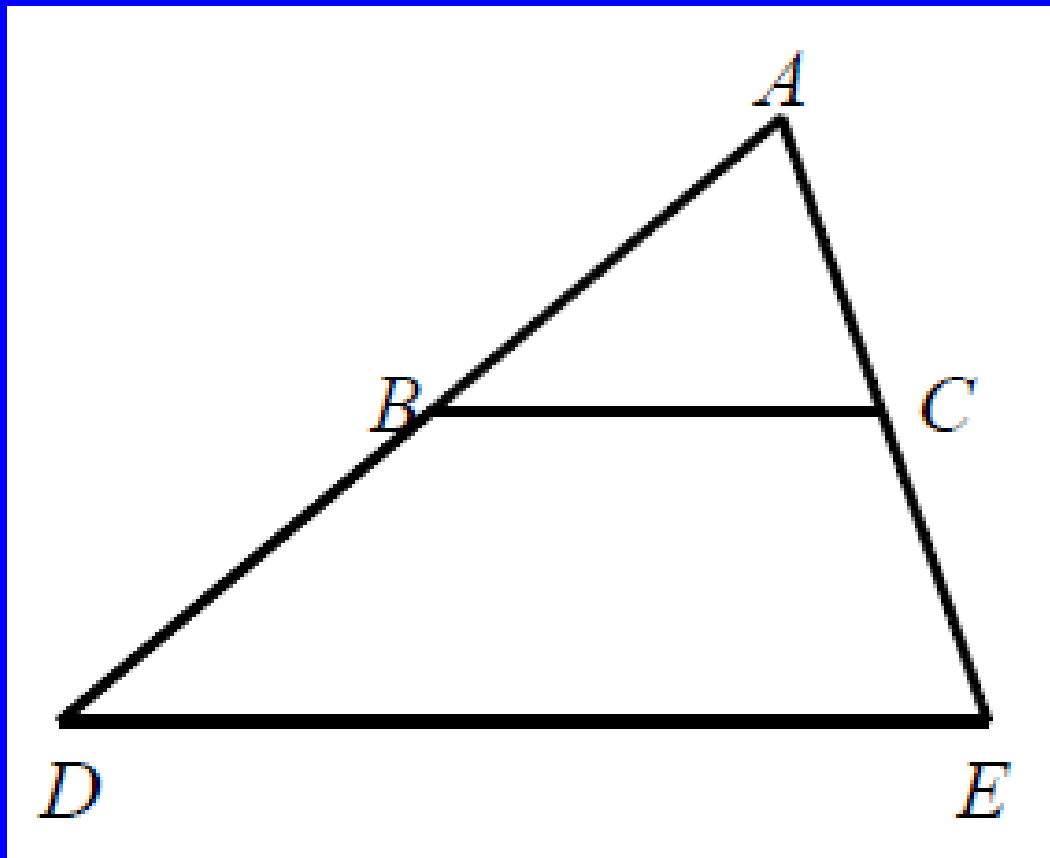


If $CB = 3$, $CA = 10$, and $CE = 6$,
 what is the length of ET ?



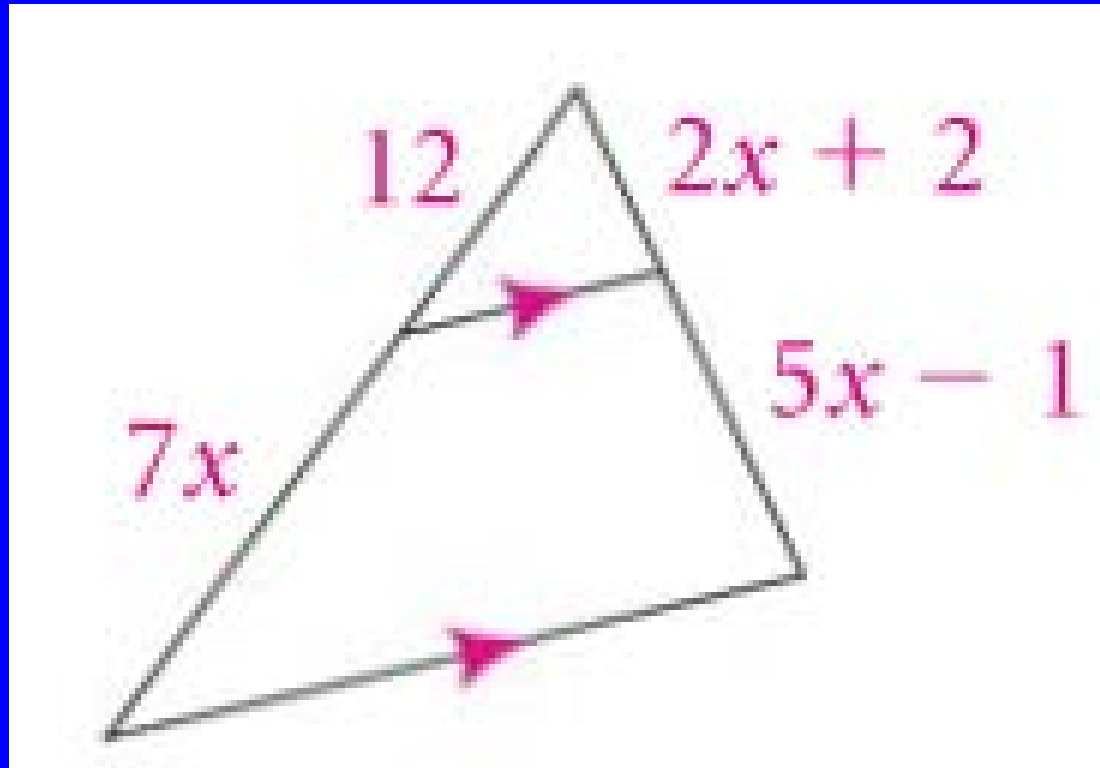


$BC \parallel DE$. $AB = 7$, $BC = 8$, and $DE = 34$. Find BD .



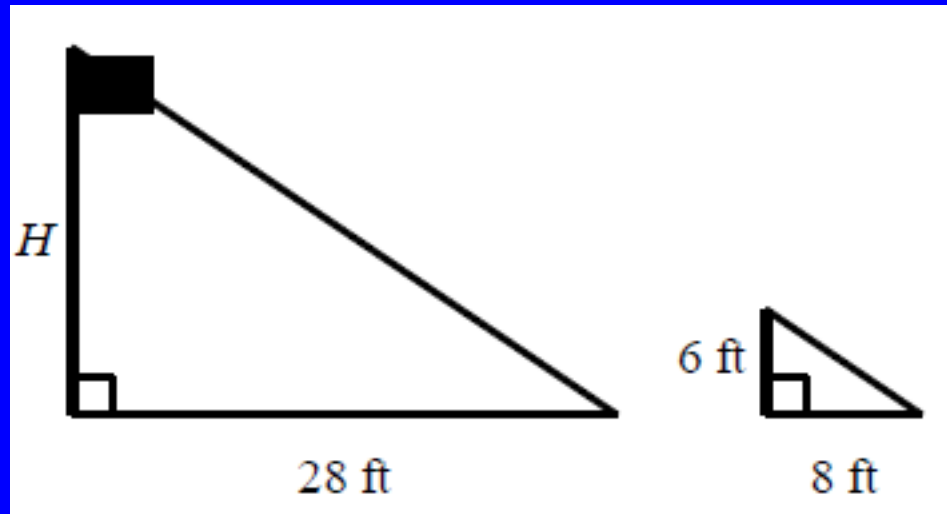


Solve for x .





Solve for H .



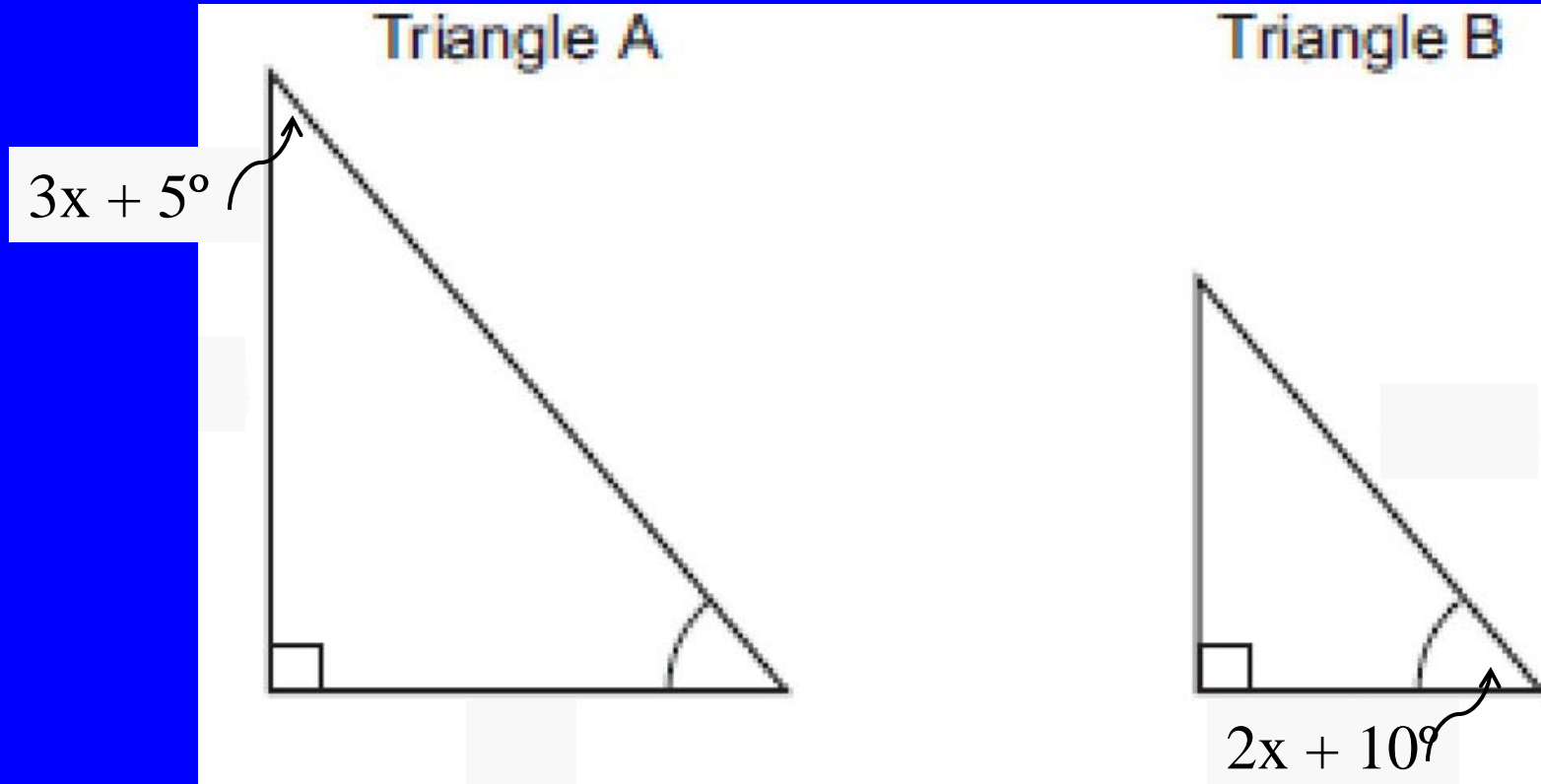


$$\frac{x + 3}{4} = \frac{7}{x + 6}$$



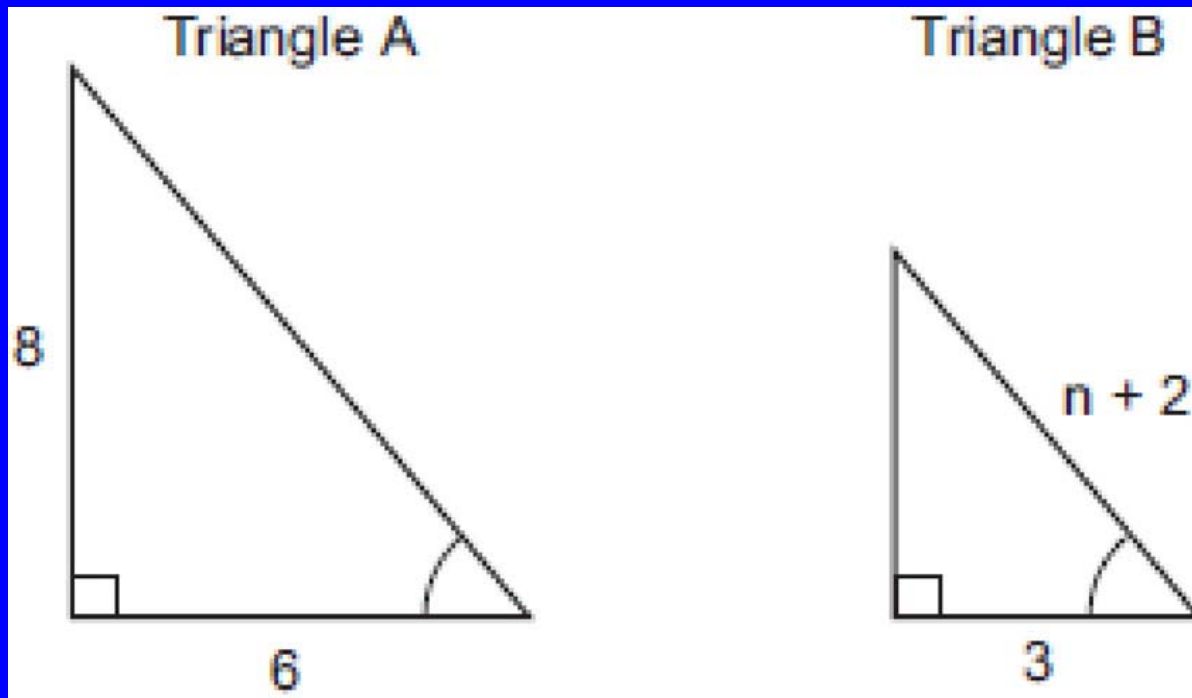


Solve for x .



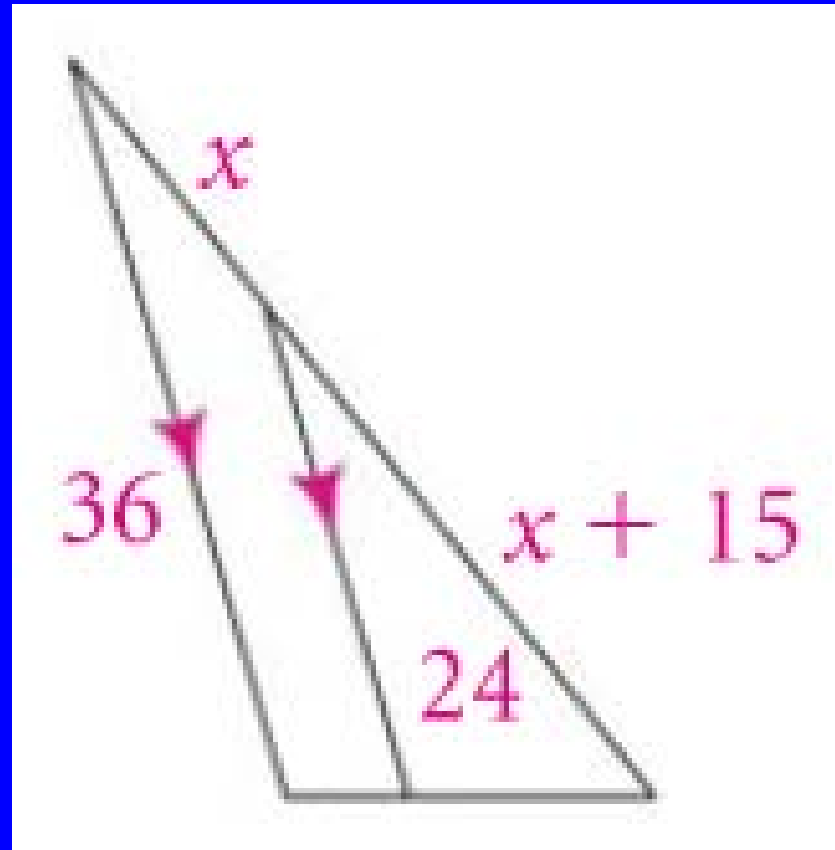


Solve for n .





Solve for x .





The perimeter of $\triangle PQR$ is 75,
 $PQ = 25$, $\triangle PQR \sim \triangle STU$, and
 $ST = 30$. What is the perimeter of
 $\triangle STU$?



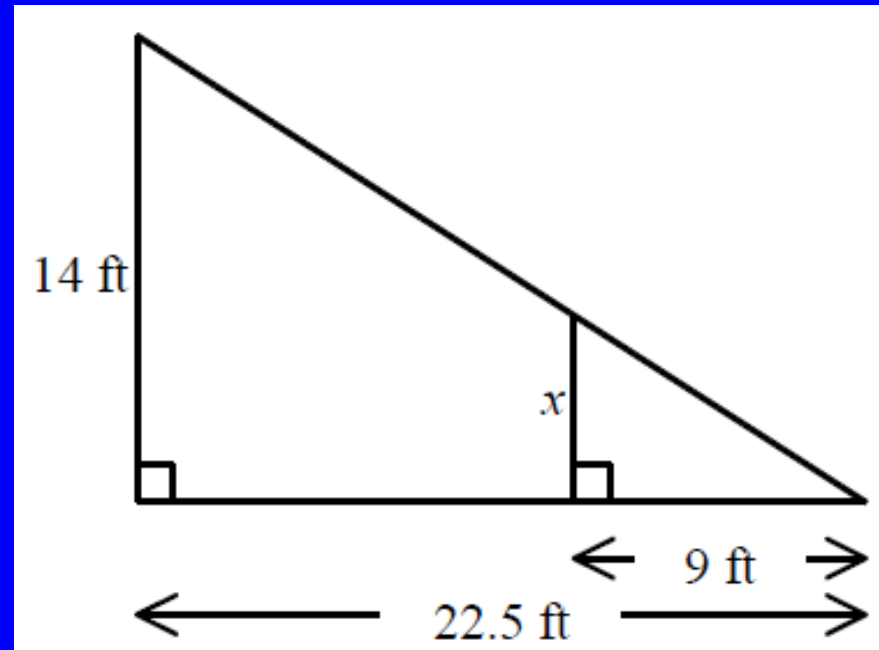


The ratio of the corresponding sides of two similar squares is 1 to 3. What is the ratio of the area of the smaller square to the area of the larger square?



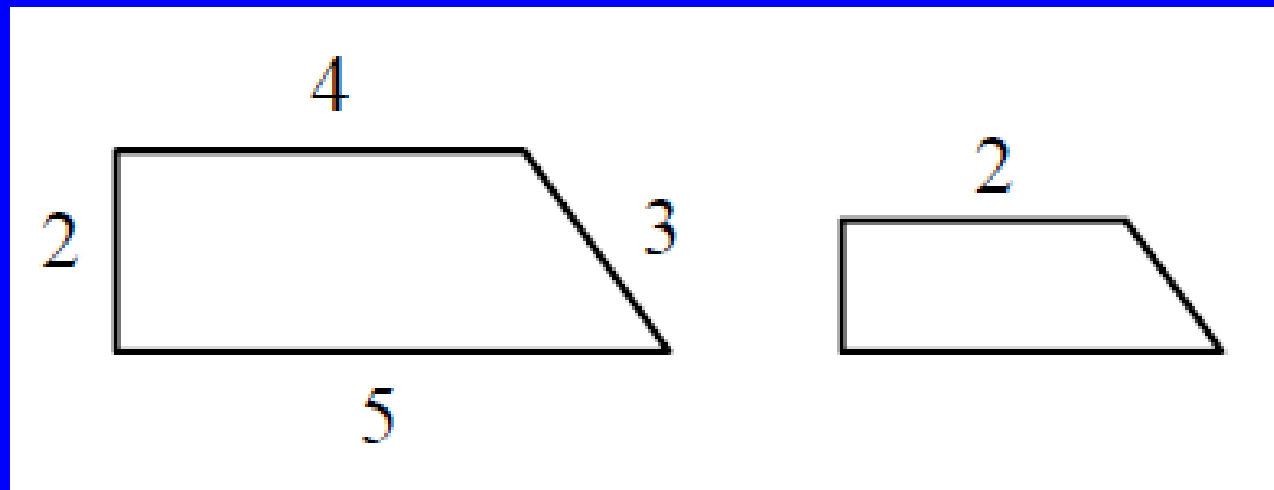


Find the area of the *smaller* triangle





Below are 2 right trapezoids. Find the area of the *smaller* trapezoid.



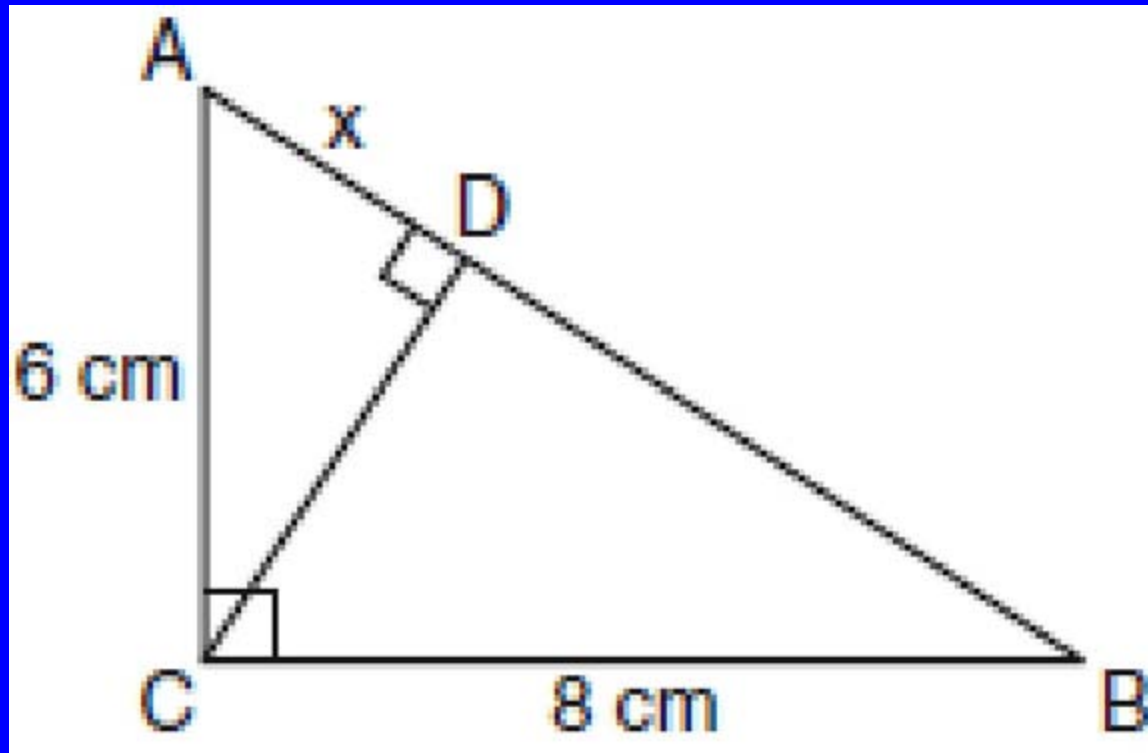


The perimeters of 2 similar triangles are 12 ft and 45 ft. The area of the smaller triangle is 64ft^2 . What is the area of the larger triangle?





Solve for x





Find the geometric mean for the lengths of 9 and 24 in *simplest radical form*.





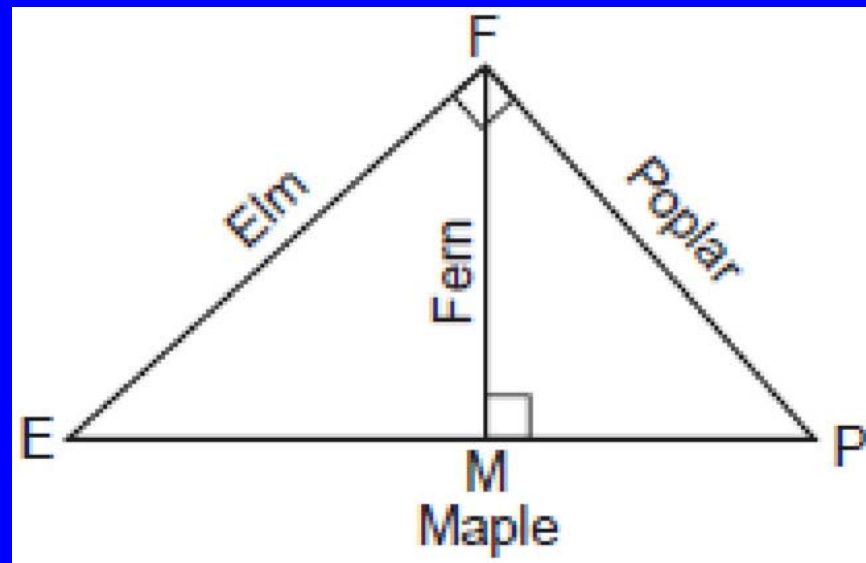
The altitude to the hypotenuse of a right triangle divides the hypotenuse into segments 2 cm and 8 cm long.
Find the length of the altitude.



CATEGORY 5 - \$400

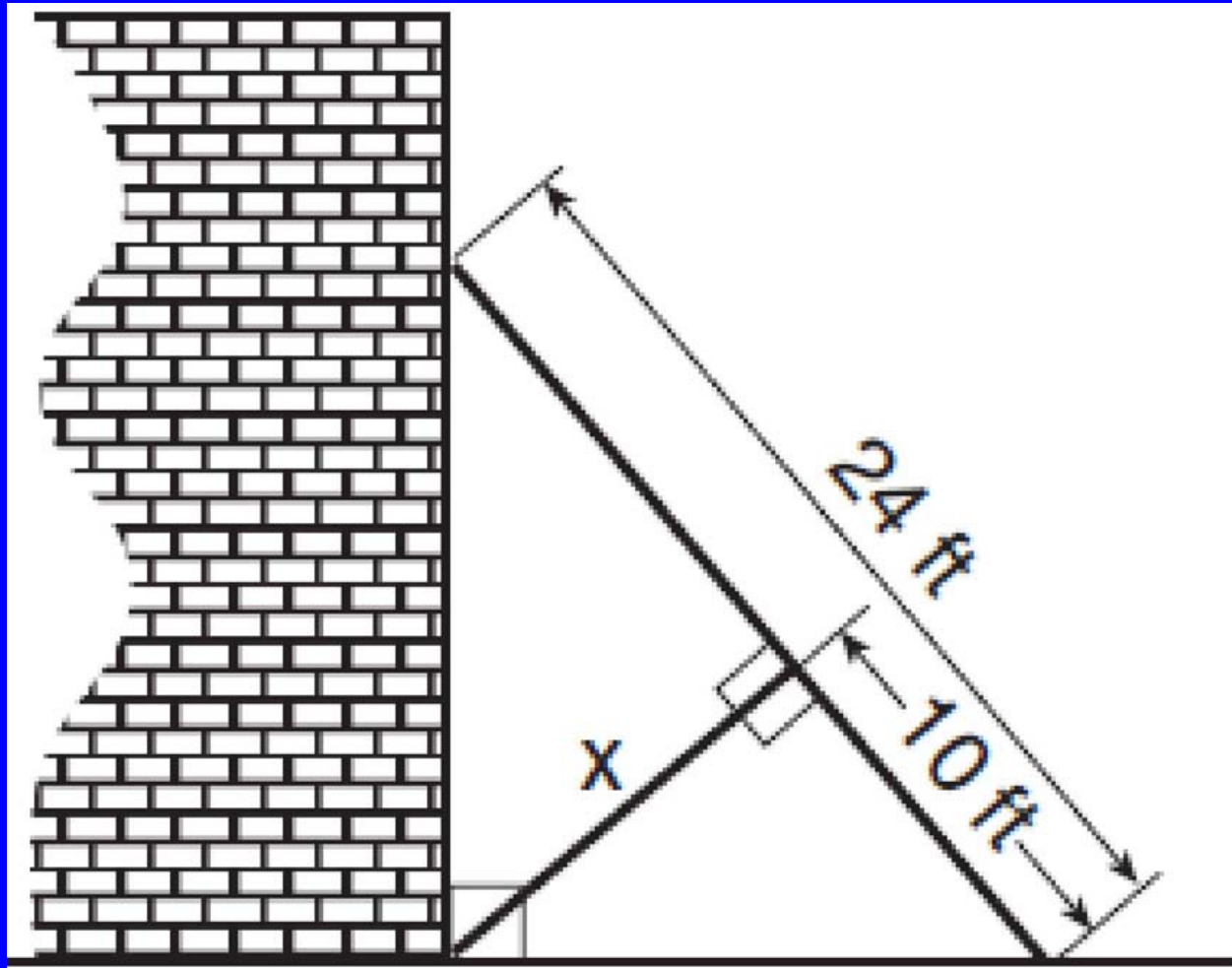


Four streets in a town are illustrated in the accompanying diagram. If the distance on Poplar Street from F to P is *12 miles* and the distance on Maple Street from E to M is *10 miles*, find the distance on Maple Street, in miles, from M to P .





Solve for x in simplest radical form.





Yes

Corresponding sides are
in proportion.



No

Corresponding sides are
not in proportion.



CATEGORY 1 - \$300

LN



No

Corresponding sides are
not in proportion.



CATEGORY 1 - \$500

3.6 in. by 6 in.

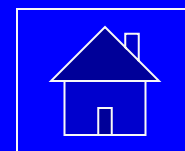


CATEGORY 2 - \$100

$$x = 5$$



$$x = 3.6$$



CATEGORY 2 - \$300

$$x = 14$$



$$BD = 22.75$$



$$x = \frac{2}{7} \text{ or } x = 3$$



$$H = 21 \text{ ft}$$



$$x = 1 \text{ or } x = -10$$



CATEGORY 3 - \$300

$$x = 15$$



CATEGORY 3 - \$400

$$n = 3$$



CATEGORY 3 - \$500

$$x = 15$$



CATEGORY 4 - \$100

90



CATEGORY 4 - \$200

1:9



25.2



CATEGORY 4 - \$400

2.25



CATEGORY 4 - \$500

900 *ft*²

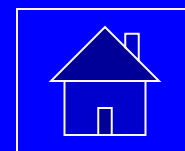


3.6



CATEGORY 5 - \$200

$$6\sqrt{6}$$



CATEGORY 5 - \$300

4 cm



CATEGORY 5 - \$400

8



CATEGORY 5 - \$500

$$2\sqrt{35}$$

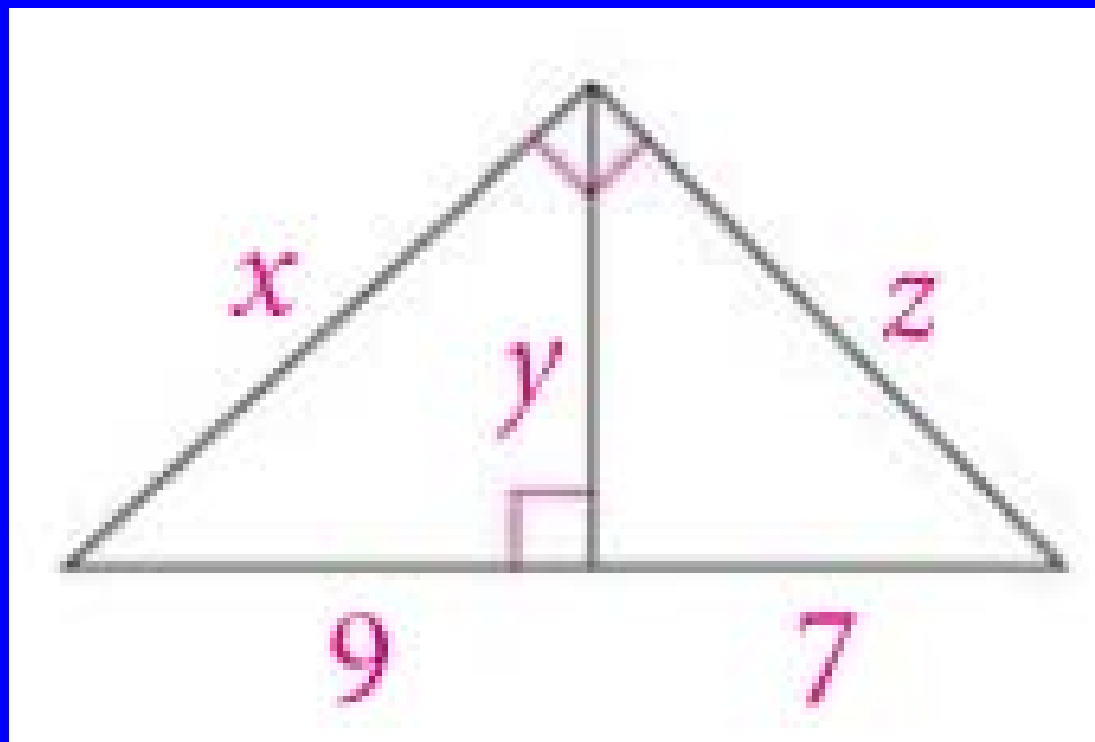


FINAL
LEOPARD!

Right or
Wrong??



Solve for x , y , and z in simplest radical form.



FINAL CATEGORY

$$x = 12$$

$$y = 3\sqrt{7}$$

$$z = 4\sqrt{7}$$

END OF GAME

Daily Doubles and
usage notes follow...



DAILY DOUBLE



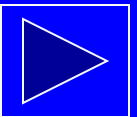


DAILY DOUBLE





DAILY AUDIO DOUBLE





DAILY VIDEO DOUBLE

