



View hints



View feedback

Play All 

## QUESTION 1



Use the given measurements to find the missing side lengths and the missing angle measures. Round your answers to the nearest tenth if necessary.

Enter your answers in the spaces provided.

 $d \approx$ 

5.8

 $e \approx$ 

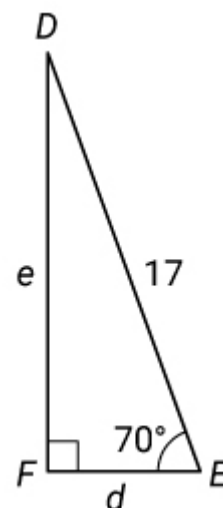
16.0

 $D =$ 

20



o



## QUESTION 2



Use the given measurements to find the missing side lengths and the missing angle measures. Round the lengths to the nearest hundredth and the angle to the nearest degree if necessary.

Enter your answers in the spaces provided.

 $d \approx$

31.05 ✓

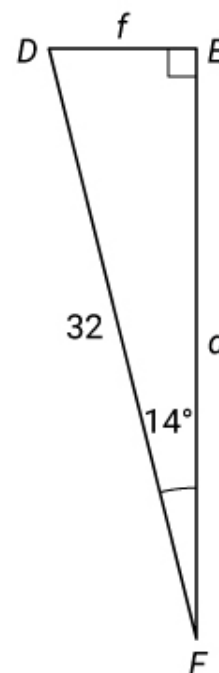
 $f \approx$ 

7.74 ✓

 $D =$ 

76 ✓

°



## QUESTION 3



Use the given measurements to find the missing side lengths and the missing angle measures. Round the length to the nearest hundredth and the angles to the nearest tenth.

Enter your answers in the spaces provided.

 $t \approx$ 

12.84 ✓

 $T \approx$ 

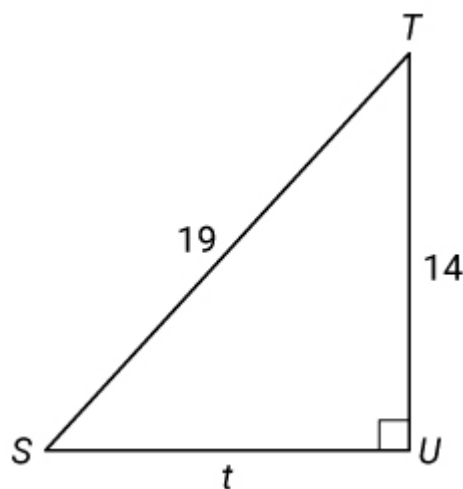
42.5 ✓

°

 $S \approx$ 

47.5 ✓

°



## QUESTION 4



Use the given measurements to find the missing side lengths and the missing angle measures. Round the length to the nearest hundredth and the angles to the nearest tenth.

Drag and drop your answers to the appropriate box.

$W \approx$

14.42



$W \approx$

58.0



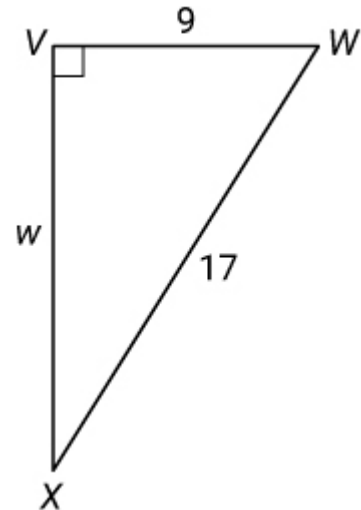
o

$X \approx$

32.0



o



12.9

27.9

15.6

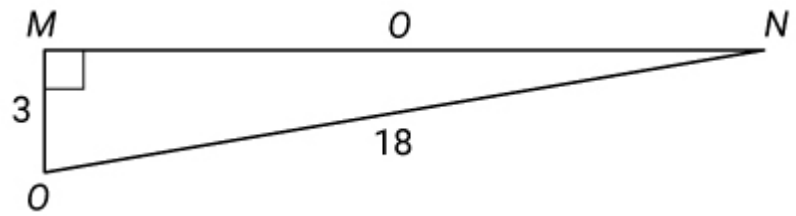
62.1

19.2

## QUESTION 5



Use the given measurements to find the missing side lengths and the missing angle measures. Round the length to the nearest hundredth and the angles to the nearest tenth.


☐

$O \approx 9.6^\circ$

☐

$O \approx 18.4$

☒

$O \approx 17.75$


☐

$O \approx 78.5^\circ$

☐

$N \approx 80.4^\circ$

☒

$N \approx 9.6^\circ$


☒

$O \approx 80.4^\circ$


☐

$N \approx 11.5^\circ$

QUESTION 6



Use the given measurements to find the missing side lengths and the missing angle measures. Round the length to the nearest hundredth and the angles to the nearest tenth.

Select your answers from the drop-down menus.

$s \approx$

9.43 ✓ ▼

$R \approx$

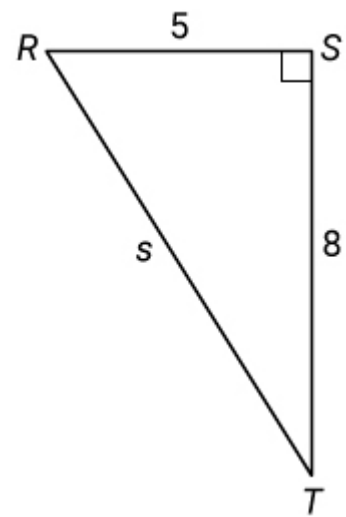
58.0 ✓ ▼

◦

$T \approx$

32 ✓ ▼

◦



## QUESTION 7



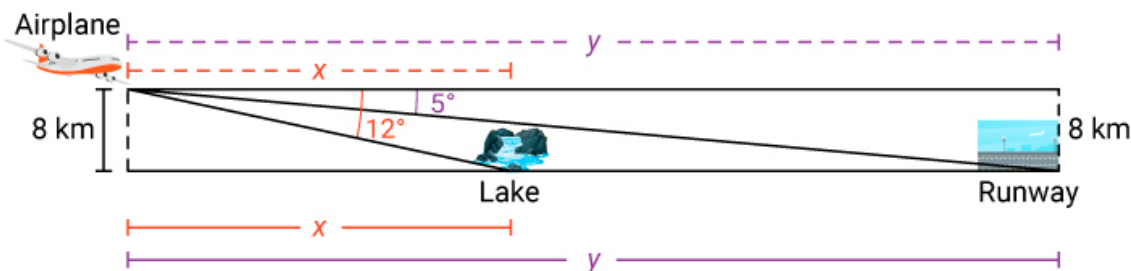
An airplane is starting its descent toward the runway. Before the plane reaches the runway, it will pass over a lake. At the moment, the airplane is 8 km in the air, the angle of depression from the airplane to the lake is

$12^\circ$

, and the angle of depression from the airplane to the runway is

$5^\circ$ .

How far apart is the lake from the runway? Round your answer to the nearest tenth.



Select your answer from the drop-down menu to complete the sentence.

The lake is about  km from the runway.

## QUESTION 8



Eva is on the roof of her workplace. Her workplace is 58 meters tall, and she can see the grocery store she shops at and her house. The angle of depression to her grocery store is  $58^\circ$

. The angle of depression to her house is  $36^\circ$

. How much farther away is Eva's workplace from her house than the grocery store. Round your answers to the nearest tenth of a meter.

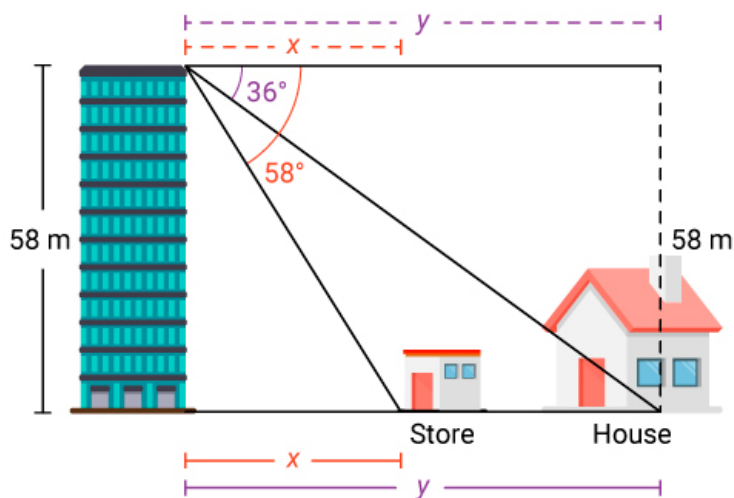
Drag and drop your answer to complete the sentence.

Eva's workplace is



meters

farther from her house than the grocery store.



31.7

29.7

62.5

## QUESTION 9



Samar is standing at an intersection. To Samar's left is her apartment complex, which is 104 meters tall. To Samar's right is a skyscraper that is 210 meters tall. The angle of elevation to the top of her apartment complex is

$37^\circ$

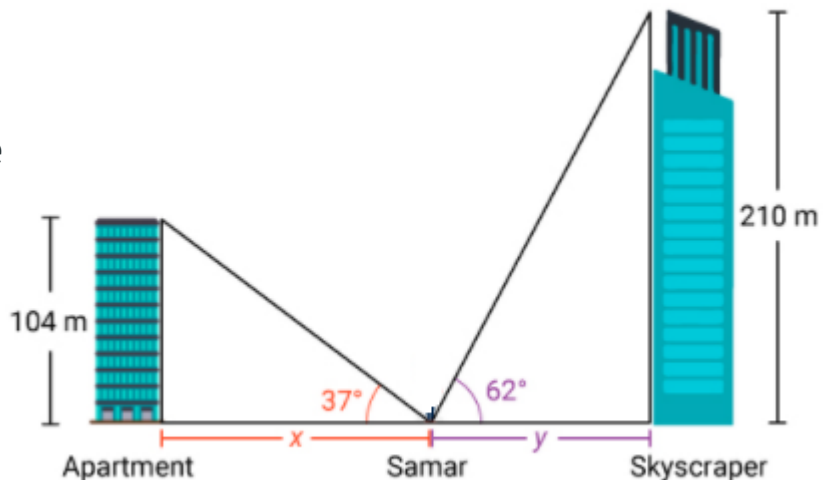
, and the angle of elevation to the top of the skyscraper is

$62^\circ$

. What is the distance between the two buildings? Round your answer to the nearest whole number.

Enter your answer in the space provided.

The distance between the apartment and the skyscraper is



250



meters.

## QUESTION 10



Use the given measurements to find the missing side lengths and the missing angle measures. Round your answers to the nearest tenth.

Drag and drop your answers to correctly complete the equations.

$x =$

6



$X \approx$

36.9



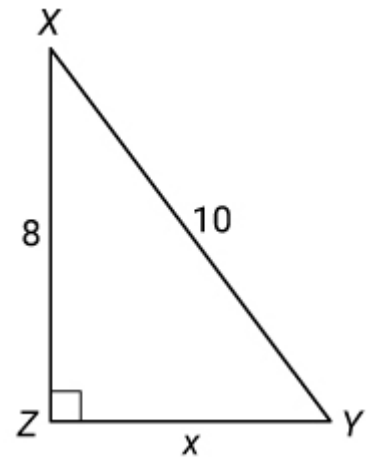
o

$Y \approx$

53.1



o



## QUESTION 11



Rashed is standing a distance away from two trees. One tree is 40 meters tall and the other tree is 65 meters tall. The angle of elevation from Rashed to the shorter tree is

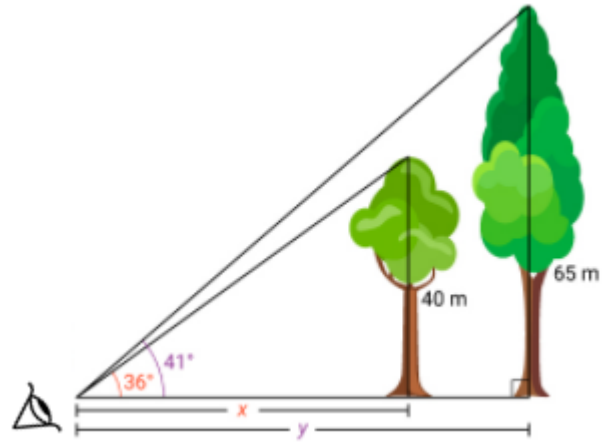
$36^\circ$

. The angle of elevation from Rashed to the taller tree is

$41^\circ$

.

What is the approximate distance between the two trees?



The distance between the two trees is approximately 20 meters. ✓

☐ The distance between the two trees is approximately 130 meters.

☐ The distance between the two trees is approximately 138 meters.

☐ The distance between the two trees is approximately 36 meters.

## QUESTION 12



Abbas is flying a kite and a bird is flying above his kite. At ground level, the distance between both the kite and bird to Abbas is 26 meters. The angle of elevation from Abbas to his kite is  $42^\circ$

. The angle of elevation from Abbas to the bird is

$67^\circ$

. What is the approximate vertical distance between Abbas's kite and the bird? Round your answer to the nearest tenth.

Enter your answer in the space provided.

The distance between Abbas's kite and the bird is

37.8



meters.



### QUESTION 13



Use the given measurements to find the missing side lengths and the missing angle measures. Round your answers to the nearest hundredth if necessary.

Select your answers from the drop-down menus.

$b \approx$

12.85 ✓ ▼

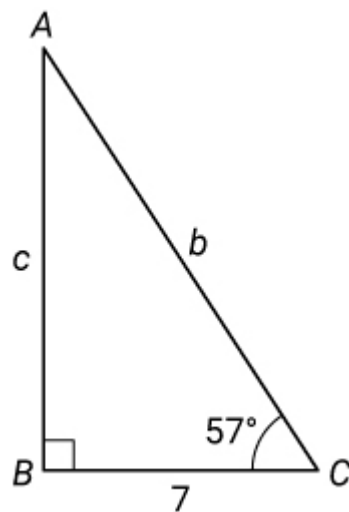
$c \approx$

10.78 ✓ ▼

$A =$

33 ✓ ▼

o



## QUESTION 14



Use the given measurements to find the missing side lengths and the missing angle measures. Round your answers to the nearest tenth if necessary.

Select your answers from the drop-down menus.

$d \approx$

11.2 ✓ ▼

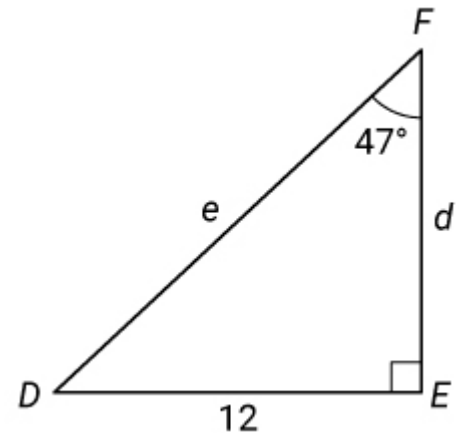
$e \approx$

16.4 ✓ ▼

$D =$

43 ✓ ▼

◦



## QUESTION 15



Use the given measurements to find the missing side lengths and the missing angle measures. Round your answers to the nearest tenth if necessary.

Drag and drop your answers to correctly complete the equations.

$a \approx$

13.5



$c \approx$ 

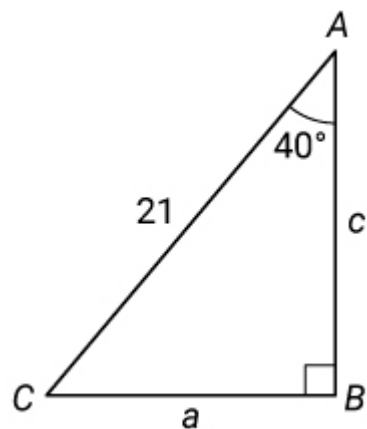
16.1

 $C =$ 

50



°



32.7

57.7

17.6

40

25