8.7

Tangent, Sine, and Cosine (Cont.)

PRACTICE

Using your calculator, find the decimal value of the following:

$\sin 32° =$

$\cos 65° =$

$\tan 12° =$

Evaluating Trig. Functions

Evaluate each trigonometric function with a calculator. Round to four decimal places.

Example: sin 60°

The calculator key sequence is [sin] [60] [=]

If you still do not get the correct answer, try [60] [sin] [=].

1. tan 45°

2. cos 10°

3. cos 220°

4. sin 80°

5. sin 23°

6. tan 135°

PRACTICE

Using your calculator, find the degree measure closest to the given ratio:

$\cos x = 0.9650$

$\tan \theta = 1.8123$

$\sin \theta = 0.8003$

$\sin \theta = 5/8$

Evaluating Trig. Functions

Find the angle with the given trigonometric ratio. Round your answer to the nearest degree.

Example: $\cos x = \left(\frac{6}{11}\right)$

calculator key sequence: [2nd] [cos] [6] [÷] [11] [=] $56.94426885^\circ = 57^\circ$

Note: The mode on your calculator should still be in degrees. If you are not getting the correct answer, try [6] [÷] [11] [2nd] [cos] [=].

1. $\cos x = \left(\frac{7}{19}\right)$

2. $\tan x = \left(\frac{101}{90}\right)$

3. $\sin x = \left(\frac{20}{21}\right)$

4. $\cos x = \left(\frac{45}{76}\right)$

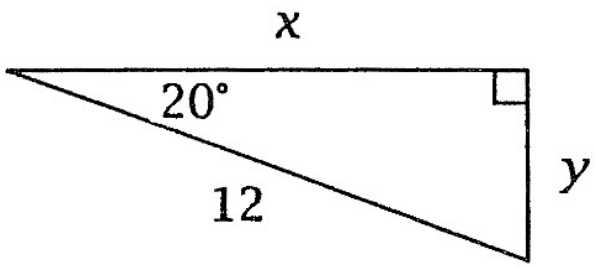
5. $\tan x = \left(\frac{15}{4}\right)$

6. $\sin x = \left(\frac{8}{99}\right)$

Finding Missing Sides with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

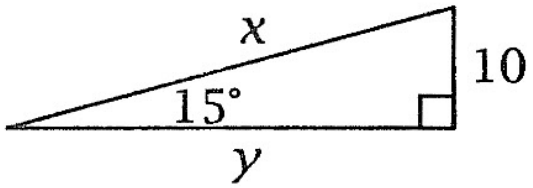
1.



Finding Missing Sides with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

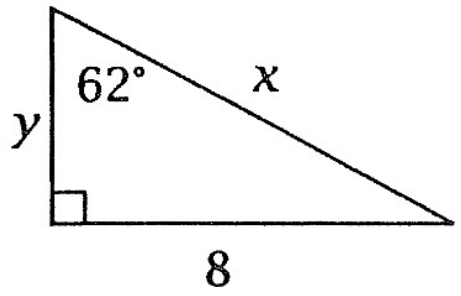
2.



Finding Missing Sides with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

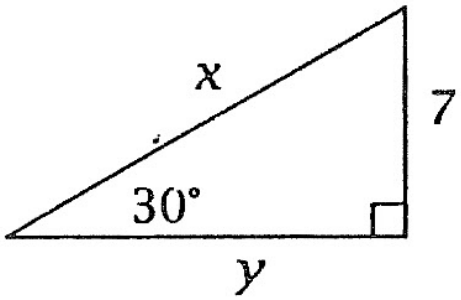
3.



Finding Missing Sides with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

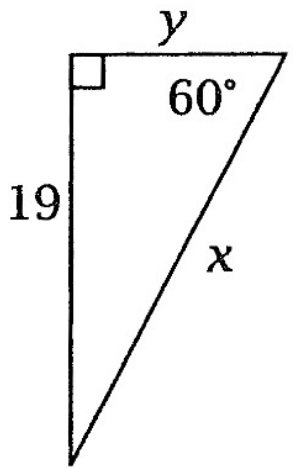
4.



Finding Missing Sides with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

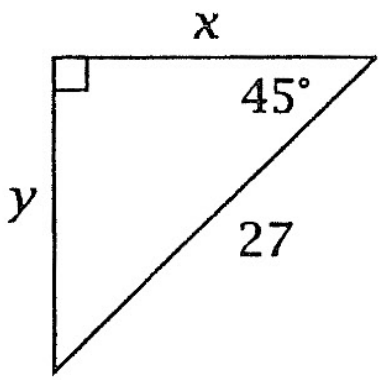
5.



Finding Missing Sides with Trig. Functions

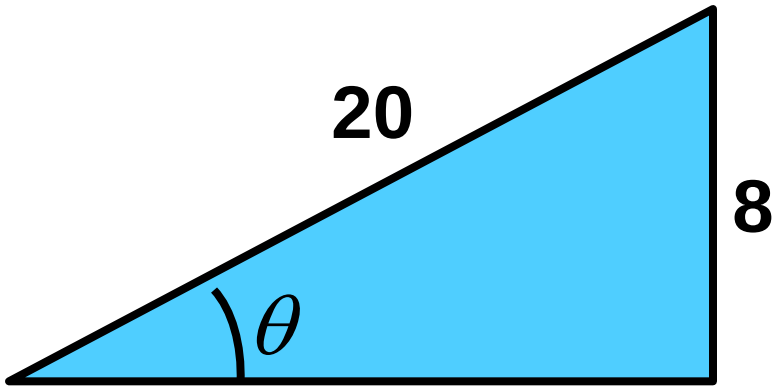
Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

6.



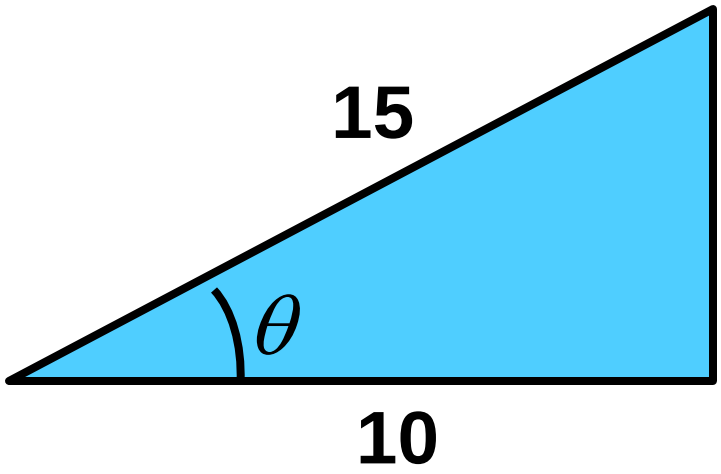
PRACTICE

Using your calculator, find the degree measure closest to the given ratio:



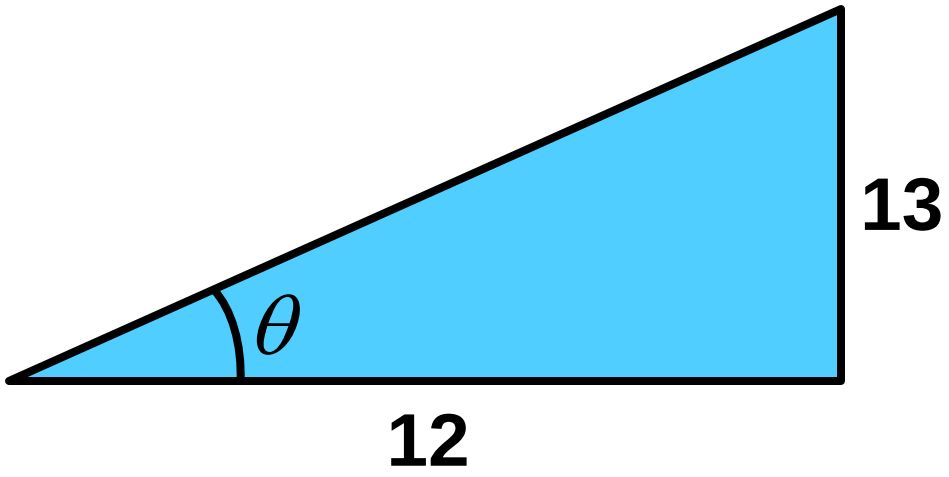
PRACTICE

Using your calculator, find the degree measure closest to the given ratio:



PRACTICE

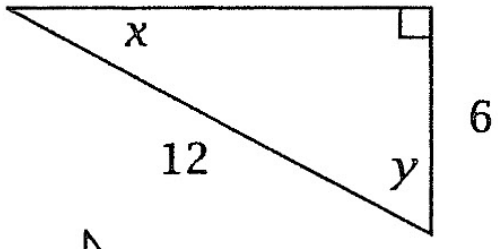
Using your calculator, find the degree measure closest to the given ratio:



Finding Missing Angles with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

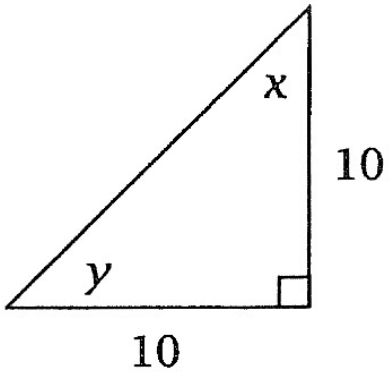
1.



Finding Missing Angles with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

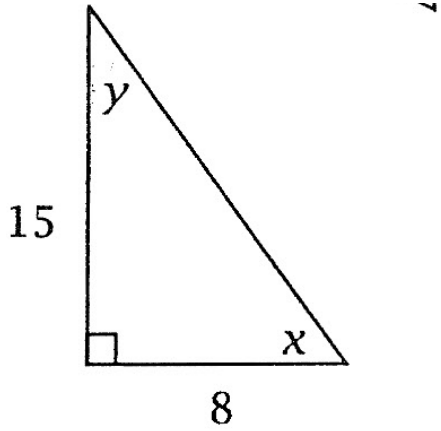
2.



Finding Missing Angles with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

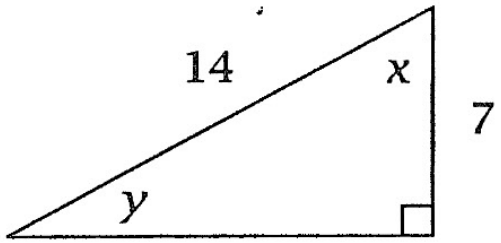
3.



Finding Missing Angles with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

4.



Finding Missing Angles with Trig. Functions

Using the trigonometric ratios, solve for the missing sides x and y of each triangle. Round your answers to the nearest tenth.

5.