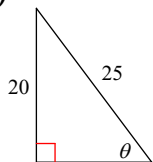


Practice for Trig Mini Test

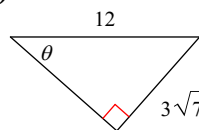
Find the value of the trig function indicated.

1)  $\tan \theta$



$\frac{4}{3}$

2)  $\tan \theta$



$\frac{\sqrt{7}}{3}$

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

3) Find  $\csc A$  if  $c = 25$ ,  $a = 7$

$\frac{25}{7}$

4) Find  $\cot A$  if  $a = 22$ ,  $b = 11$

$\frac{1}{2}$

Find the value of the trig function indicated.

5) Find  $\csc \theta$  if  $\cos \theta = \frac{3}{5}$

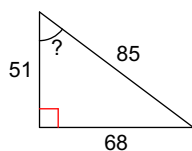
$\frac{5}{4}$

6) Find  $\sin \theta$  if  $\sec \theta = \frac{13}{5}$

$\frac{12}{13}$

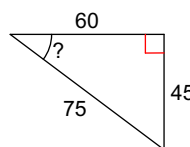
Find the measure of the indicated angle to the nearest degree.

7)



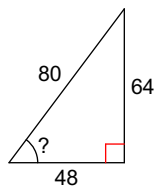
$53^\circ$

8)



$37^\circ$

9)



$53^\circ$

In each problem, angle C is a right angle. Find the angle indicated to the nearest tenth.

10) Find  $m\angle B$  if  $a = 5.7$ ,  $b = 2$

$19.3^\circ$

11) Find  $m\angle A$  if  $b = 10$ ,  $a = 10$

$45^\circ$

In each problem, angle C is a right angle. Find the side indicated to the nearest tenth.

12) Find  $a$  if  $c = 12$ ,  $m\angle A = 60^\circ$

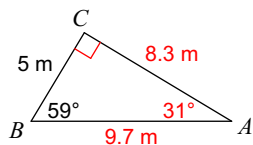
10.4

13) Find  $a$  if  $m\angle B = 31^\circ$ ,  $c = 15$

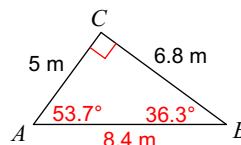
12.9

Solve each triangle. Round answers to the nearest tenth.

14)



15)



State the number of possible triangles that can be formed using the given measurements.

16)  $m\angle C = 30^\circ$ ,  $c = 29$ ,  $b = 15$

One triangle

17)  $m\angle A = 59^\circ$ ,  $c = 27$ ,  $a = 25$

Two triangles

18)  $m\angle A = 108^\circ$ ,  $c = 30$ ,  $a = 29$

None

Solve each triangle. Round your answers to the nearest tenth.

19)  $m\angle A = 42^\circ$ ,  $m\angle B = 87^\circ$ ,  $c = 7$

$m\angle C = 51^\circ$ ,  $a = 6$ ,  $b = 9$

20)  $m\angle A = 35^\circ$ ,  $c = 19$ ,  $a = 7$

Not a triangle

21)  $m\angle B = 36^\circ$ ,  $a = 29$ ,  $b = 24$

$m\angle C = 98.7^\circ$ ,  $m\angle A = 45.3^\circ$ ,  $c = 40.4$

Or  $m\angle C = 9.3^\circ$ ,  $m\angle A = 134.7^\circ$ ,  $c = 6.6$

22)  $b = 30$  yd,  $m\angle C = 88^\circ$ ,  $a = 29$  yd

$m\angle A = 45^\circ$ ,  $m\angle B = 47^\circ$ ,  $c = 41$  yd

23)  $a = 29$  ft,  $c = 21$  ft,  $b = 13$  ft

$m\angle C = 41^\circ$ ,  $m\angle A = 115^\circ$ ,  $m\angle B = 24^\circ$

24)  $c = 28$  km,  $b = 24$  km,  $m\angle A = 24^\circ$

$m\angle B = 58^\circ$ ,  $m\angle C = 98^\circ$ ,  $a = 11.5$  km

25) Also do the last 6 trig problems from the trig identities wkst.