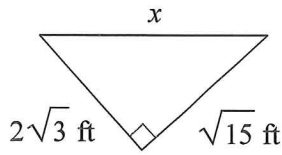


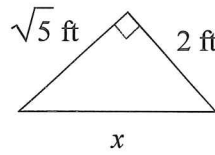
Skill Review: Pythagorean Thm & SRT

Find the missing side of each triangle. Leave your answers in simplest radical form.

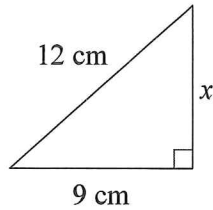
1)



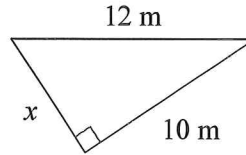
2)



3)

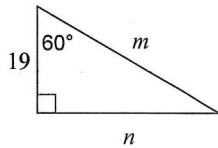


4)



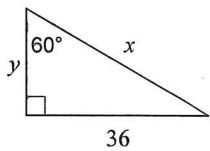
Find the missing side lengths. Leave your answers as radicals in simplest form.

5)



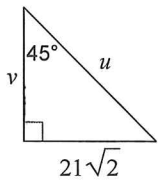
6)   
 Hyp = 2 \* SL   
 $x = 2(13\sqrt{3})$    
 $x = 26\sqrt{3}$    
 LL = SL \* \sqrt{3}   
 $y = 13\sqrt{3} \cdot \sqrt{3}$    
 $y = 39$

7)

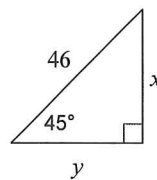


8)   
 $n = 13$    
 Hyp = leg \* \sqrt{2}   
 $m = 13\sqrt{2}$

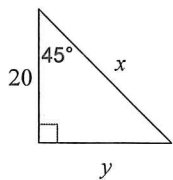
9)



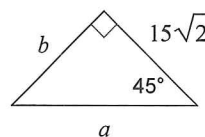
10)



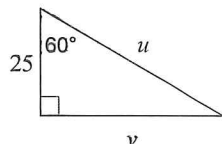
11)



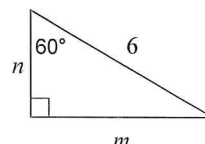
12)



13)



14)



## Answers to Skill Review: Pythagorean Thm & SRT (ID: 1)

1)  $3\sqrt{3}$  ft

2) 3 ft

3)  $3\sqrt{7}$  cm

4)  $2\sqrt{11}$  m

5)  $m = 38, n = 19\sqrt{3}$

6)  $x = 26\sqrt{3}, y = 39$

7)  $x = 24\sqrt{3}, y = 12\sqrt{3}$

8)  $m = 13\sqrt{2}, n = 13$

9)  $u = 42, v = 21\sqrt{2}$

10)  $x = 23\sqrt{2}, y = 23\sqrt{2}$

11)  $x = 20\sqrt{2}, y = 20$

12)  $a = 30, b = 15\sqrt{2}$

13)  $u = 50, v = 25\sqrt{3}$

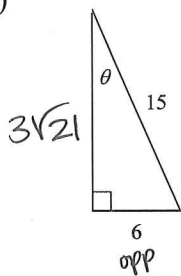
14)  $m = 3\sqrt{3}, n = 3$

## Skill Review: Trig Ratios (13-1)

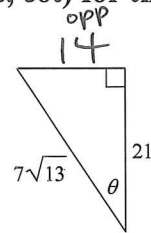
Date \_\_\_\_\_ Period \_\_\_\_\_

Find the value of the six trig functions (sin, cos, tan, csc, sec, cot) for the angle indicated.

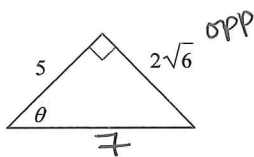
1)



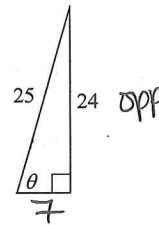
2)



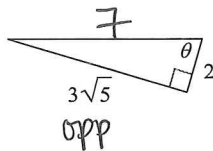
3)



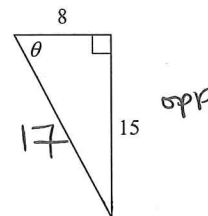
4)



5)



6)



7) Find  $\tan \theta$  if  $\csc \theta = \frac{25}{7}$

8) Find  $\cot \theta$  if  $\sec \theta = \frac{9}{7}$

9) Find  $\csc \theta$  if  $\sec \theta = \frac{13}{5}$

10) Find  $\cos \theta$  if  $\csc \theta = \frac{17}{10}$

11) Find  $\csc \theta$  if  $\cot \theta = \frac{2\sqrt{5}}{5}$

12) Find  $\sec \theta$  if  $\sin \theta = \frac{\sqrt{23}}{12}$

Answers to Skill Review: Trig Ratios (13-1) (ID: 1)

★ #1-6 SEE BELOW ★

$$9) \frac{13}{12}$$

$$10) \frac{3\sqrt{21}}{17}$$

$$7) \frac{7}{24}$$

$$11) \frac{3\sqrt{5}}{5}$$

$$8) \frac{7\sqrt{2}}{8}$$

$$12) \frac{12}{11}$$

$$\textcircled{1} \sin \theta = \frac{2}{5}$$

$$\csc \theta = \frac{5}{2}$$

$$\cos \theta = \frac{\sqrt{21}}{5}$$

$$\sec \theta = \frac{5\sqrt{21}}{21}$$

$$\tan \theta = \frac{2\sqrt{21}}{21}$$

$$\cot \theta = \frac{\sqrt{21}}{2}$$

$$\textcircled{2} \sin \theta = \frac{2\sqrt{13}}{13}$$

$$\csc \theta = \frac{\sqrt{13}}{2}$$

$$\cos \theta = \frac{3\sqrt{13}}{13}$$

$$\sec \theta = \frac{\sqrt{13}}{3}$$

$$\tan \theta = \frac{2}{3}$$

$$\cot \theta = \frac{3}{2}$$

$$\textcircled{3} \sin \theta = \frac{2\sqrt{6}}{7}$$

$$\csc \theta = \frac{7\sqrt{6}}{12}$$

$$\cos \theta = \frac{5}{7}$$

$$\sec \theta = \frac{7}{5}$$

$$\tan \theta = \frac{2\sqrt{6}}{5}$$

$$\cot \theta = \frac{5\sqrt{6}}{12}$$

$$\textcircled{4} \sin \theta = \frac{24}{25}$$

$$\csc \theta = \frac{25}{24}$$

$$\cos \theta = \frac{7}{25}$$

$$\sec \theta = \frac{25}{7}$$

$$\tan \theta = \frac{24}{7}$$

$$\cot \theta = \frac{7}{24}$$

$$\textcircled{5} \sin \theta = \frac{3\sqrt{5}}{7}$$

$$\csc \theta = \frac{7\sqrt{5}}{15}$$

$$\cos \theta = \frac{2}{7}$$

$$\sec \theta = \frac{7}{2}$$

$$\tan \theta = \frac{3\sqrt{5}}{2}$$

$$\cot \theta = \frac{2\sqrt{5}}{15}$$

$$\textcircled{6} \sin \theta = \frac{15}{17}$$

$$\csc \theta = \frac{17}{15}$$

$$\cos \theta = \frac{8}{17}$$

$$\sec \theta = \frac{17}{8}$$

$$\tan \theta = \frac{15}{8}$$

$$\cot \theta = \frac{8}{15}$$