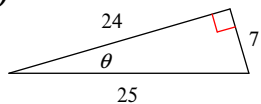


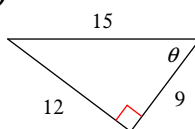
# 12-05-22-T10 trig ratios

Find the value of the trigonometric ratio indicated.

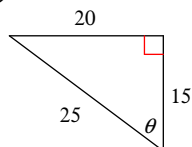
1)  $\cos \theta$



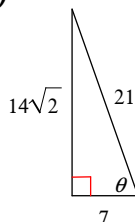
2)  $\tan \theta$



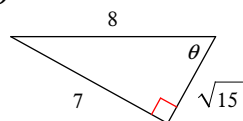
3)  $\tan \theta$



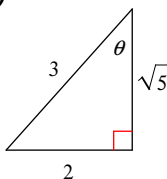
4)  $\tan \theta$



5)  $\sin \theta$



6)  $\sin \theta$



7) Find  $\sin A$  if  $b = 4$ ,  $a = 3$ ,  $c = 5$

8) Find  $\cos A$  if  $c = 12\sqrt{5}$ ,  $a = 12$ ,  $b = 24$

9) Find  $\cos A$  if  $c = 7\sqrt{13}$ ,  $a = 21$ ,  $b = 14$

10) Find  $\sin A$  if  $a = 15$ ,  $c = 25$ ,  $b = 20$

11) Find  $\cos A$  if  $a = 6$ ,  $b = 8$ ,  $c = 10$

12) Find  $\cos A$  if  $b = 12$ ,  $a = 9$ ,  $c = 15$

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

14) Find  $\tan \theta$  if  $\cos \theta = \frac{\sqrt{5}}{5}$

15) Find  $\tan \theta$  if  $\cos \theta = \frac{24}{25}$

16) Find  $\tan \theta$  if  $\sin \theta = \frac{3\sqrt{10}}{10}$

17) Find  $\sin \theta$  if  $\tan \theta = 2$

18) Find  $\sin \theta$  if  $\cos \theta = \frac{24}{25}$

## Answers to 12-05-22-T10 trig ratios

1)  $\frac{24}{25}$

2)  $\frac{4}{3}$

3)  $\frac{4}{3}$

4)  $2\sqrt{2}$

5)  $\frac{7}{8}$

6)  $\frac{2}{3}$

7)  $\frac{3}{5}$

8)  $\frac{2\sqrt{5}}{5}$

9)  $\frac{2\sqrt{13}}{13}$

10)  $\frac{3}{5}$

11)  $\frac{4}{5}$

12)  $\frac{4}{5}$

13)  $\frac{4}{3}$

14) 2

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

16) 3

17)  $\frac{2\sqrt{5}}{5}$

18)  $\frac{7}{25}$