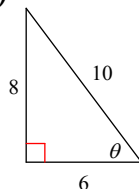


Practice Test 4.1-4.5 - NO CALC

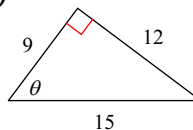
Date _____ Period ____ Score _____

Find the value of the trig function indicated.

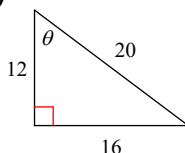
1) $\cos \theta$



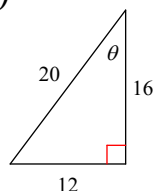
2) $\tan \theta$



3) $\sin \theta$



4) $\csc \theta$

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

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

6) Find $\csc A$ if $b = 7$, $c = 25$, $a = 24$

Find the value of the trig function indicated.

7) Find $\sec \theta$ if $\tan \theta = \frac{8}{15}$

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

Find the exact value of each trigonometric function.

9) $\sin 30^\circ$

10) $\sin 300^\circ$

11) $\cos 300^\circ$

12) $\cos 315^\circ$

13) $\tan 90^\circ$

14) $\tan 300^\circ$

15) $\sin \frac{2\pi}{3}$

16) $\sin \frac{\pi}{6}$

17) $\cos \frac{11\pi}{6}$

18) $\cos \frac{3\pi}{4}$

19) $\tan \frac{3\pi}{2}$

20) $\tan \frac{\pi}{3}$

21) $\sec 315^\circ$

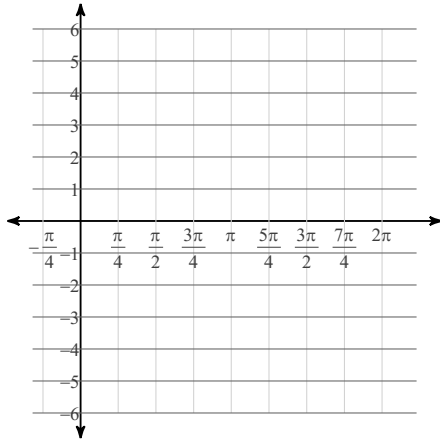
22) $\csc 0^\circ$

23) $\cot \frac{11\pi}{6}$

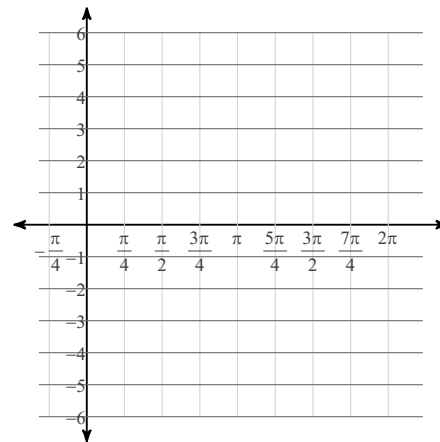
24) $\csc \pi$

Find the amplitude, the period in radians, the phase shift in radians, and the vertical shift. Then sketch the graph using radians.

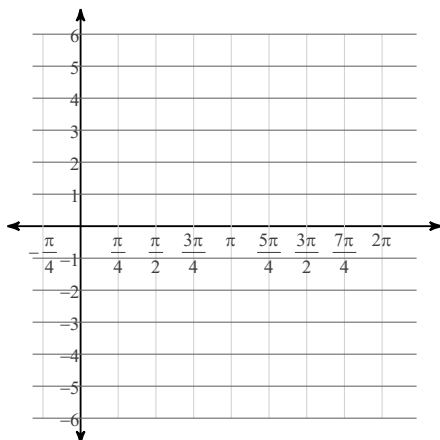
25) $y = 4\sin 3\theta$



26) $y = \frac{1}{2} \cdot \cos\left(3\theta + \frac{\pi}{3}\right)$



27) $y = \frac{1}{2} \cdot \cos\left(2\theta - \frac{2\pi}{3}\right) + 2$



Answers to Practice Test 4.1-4.5 - NO CALC (ID: 1)

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

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

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

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

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

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

7) $\frac{17}{15}$

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

9) $\frac{1}{2}$

10) $-\frac{\sqrt{3}}{2}$

11) $\frac{1}{2}$

12) $\frac{\sqrt{2}}{2}$

13) Undefined

14) $-\sqrt{3}$

15) $\frac{\sqrt{3}}{2}$

16) $\frac{1}{2}$

17) $\frac{\sqrt{3}}{2}$

18) $-\frac{\sqrt{2}}{2}$

19) Undefined

20) $\sqrt{3}$

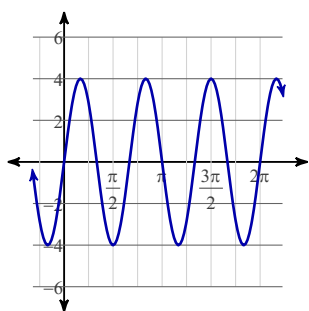
21) $\sqrt{2}$

22) Undefined

23) $-\sqrt{3}$

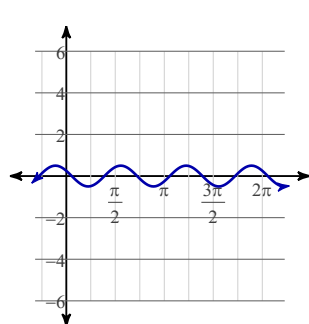
24) Undefined

25)



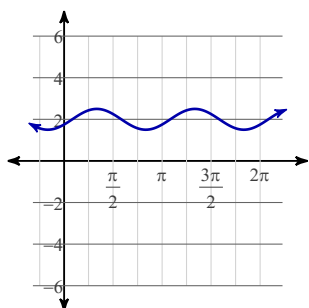
Amplitude: 4
 Period: $\frac{2\pi}{3}$
 Phase shift: None
 Vert. shift: None

26)



Amplitude: $\frac{1}{2}$
 Period: $\frac{2\pi}{3}$
 Phase shift: Left $\frac{\pi}{9}$
 Vert. shift: None

27)



Amplitude: $\frac{1}{2}$
 Period: π
 Phase shift: Right $\frac{\pi}{3}$
 Vert. shift: Up 2