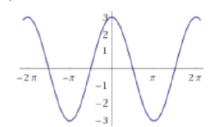
- 17. If $f(x) = \cos 3x$, then $f(\pi/6) =$
 - (A)0

 - $(B)\frac{1}{2}$ $(C)\frac{\sqrt{3}}{2}$
 - (D)1
- 18. $\sec\left(-\frac{\pi}{3}\right) =$
 - $(A)\frac{1}{2}$
 - (B) 2 (C) $-\frac{2}{\sqrt{3}}$
 - (D) 2
- 19. For which value of x is $\tan x$ not defined?
 - $^{\rm (A)^{\pi}\!/_{4}}$

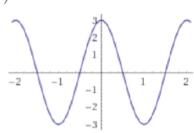
 - (B) π (C) $-\pi/2$ (D) $\pi/3$

20. Which of the following is a graph of $y = 3\cos(\pi x)$?

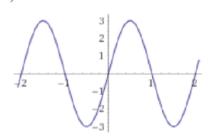
(A)



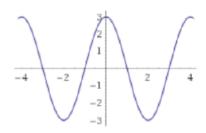
(C)



(B)



(D)



- 21. $\sin^2 \theta \cot \theta \sec \theta =$
 - $(A)\sin\theta$
 - $(B)\cos\theta$
 - $(\mathbf{C})\sin\theta\cot\theta$
 - (D) $\sin \theta \cot^2 \theta$
- 22. $\cos^2 \theta 1 =$
 - $(A)\sin\theta$
 - (B) $\cos 2\theta$
 - $(\mathbf{C})\sin^2\theta$
 - (D) $-\sin^2\theta$
- 23. $tan^{-1} 1 =$
 - $^{(A)^{\pi}\!/_4}$
 - (B) $\pi/_2$
 - (C) 0
 - $(\mathbf{D})\pi$