Find the exact value of each

1. $\sec\left(\frac{3\pi}{4}\right)$
2. $\csc\left(\frac{11\pi}{6}\right)$
3. $\tan\left(\frac{28\pi}{3}\right)$
4. $\sin\left(\frac{19\pi}{2}\right)$
5. $\cos\left(\frac{7\pi}{4}\right)$
6. $\cot\left(\frac{11\pi}{4}\right)$
7. $\sin\left(\frac{4\pi}{3}\right)$
8. $\tan\left(-\frac{5\pi}{6}\right)$
9. $\sec\left(-\frac{9\pi}{4}\right)$
10. $\csc\left(-\frac{17\pi}{2}\right)$

(11) $\text{Tan}^{-1}(-1) + \text{Tan}\left(\frac{\pi}{4}\right)$

(12) $\text{Sec}^{-1}(2) - \text{Sin}\left(\frac{\pi}{6}\right)$

(13) $\text{Sin}^{-1}\left(-\frac{\sqrt{3}}{2}\right) + \text{Tan}(\pi)$

(14) $\text{Csc}^{-1}(1) + \text{Cot}\left(\frac{3\pi}{4}\right)$

(15) $\text{Cos}^{-1}\left(-\frac{\sqrt{3}}{2}\right) - \text{Cos}\left(\frac{\pi}{6}\right)$

(16) $\text{Sin}\left(\text{ArcCos}\left(\frac{2}{3}\right)\right)$

(17) $\text{Tan}\left(\text{Sin}^{-1}\left(\frac{5}{9}\right)\right)$

(18) $\text{Sec}\left(\text{Csc}^{-1}(4)\right)$

(19) $\text{Cos}\left(\text{ArcTan}\left(\frac{15}{8}\right)\right)$

(20) $\text{Cot}\left(\text{Sin}^{-1}\left(\frac{2}{5}\right)\right)$

Solve for x:

(21) $\sin x - 1 = 0$

(22) $\tan x - 1 = 0$

(23) $2\cos x + 1 = 0$

(24) $\sec x - 2 = 0$

(25) $4\cos^2 x - 1 = 0$

(26) $\cos(3x) = \frac{\sqrt{3}}{2}$, if $0 \leq x \leq 2\pi$

(27) $\tan(2x) = -1$, if $0 \leq x \leq 2\pi$

(28) $\sin(3x) = \frac{\sqrt{3}}{2}$, if $0 \leq x \leq 2\pi$

(29) $\sec(2x) = 1$, if $0 \leq x \leq 2\pi$

(30) $\tan(3x) = \frac{1}{\sqrt{3}}$, if $0 \leq x \leq 2\pi$

Graph one cycle on a scaled set of axes

(31) $y = 4\sin(2x)$

(32) $y = 3\cos(5x)$

(33) $y = -2\sin(\frac{1}{2}x)$

(34) $y = -10\cos(20x)$

(35) $y = 40\cos(6\pi x)$

(36) $y = -8\sin(\frac{\pi}{10}x)$

(37) $y = -\frac{1}{2}\cos(\frac{\pi}{8}x)$

(38) $y = 100\sin(200x)$

(39) $y = -6\sin(10\pi x)$

(40) $y = 40\cos(16x)$

41) $y = 2 + 3\sin\left(x + \frac{\pi}{4}\right)$

42) $y = 4 + 2\cos\left(x - \frac{\pi}{6}\right)$

43) $y = 5 - 4\sin\left(x + \frac{\pi}{12}\right)$

44) $y = 3 - 6\cos 4\left(x - \frac{\pi}{10}\right)$

45) $y = -4 + 7\sin\frac{\pi}{6}(x - 2)$

46) $y = 5 - 2\cos(4x - \pi)$

47) $y = 3 + 2\sin\left(3x + \frac{\pi}{4}\right)$

48) $y = -2 + \frac{1}{2}\cos\left(\frac{\pi}{2}x - 3\pi\right)$

49) $y = 1 - 5\sin\left(\pi x - \frac{\pi}{2}\right)$

50) $y = -10 + 4\cos\left(2x + \frac{\pi}{3}\right)$