Skip any in degrees, See lecture notes 20 Basic Trigonometry for unit circle.

20 Basic Trigonometry

Find the exact value of each.

1.
$$\sin(60^{\circ}) =$$

4.
$$\sin(30^{\circ}) =$$

2.
$$\cos(60^{\circ}) =$$

5.
$$\cos(30^{\circ}) =$$

3.
$$\tan(60^{\circ}) =$$

6.
$$\tan(30^{\circ}) =$$

7.
$$\sin(\frac{\pi}{3}) =$$

10.
$$\sin(\frac{\pi}{6}) =$$

8.
$$\cos(\frac{\pi}{3}) =$$

11.
$$\cos(\frac{\pi}{6}) =$$

9.
$$\tan(\frac{\pi}{3}) =$$

12.
$$\tan(\frac{\pi}{6}) =$$

13.
$$\sin(45^{\circ}) =$$

16.
$$\sin(\frac{\pi}{4}) =$$

14.
$$\cos(45^{\circ}) =$$

17.
$$\cos(\frac{\pi}{4}) =$$

15.
$$\tan(45^{\circ}) =$$

18.
$$\tan(\frac{\pi}{4}) =$$

19.
$$\csc(60^{\circ}) =$$

22.
$$\cot(30^{\circ}) =$$

20.
$$\sec(60^{\circ}) =$$

23.
$$\csc(30^{\circ}) =$$

21.
$$\cot(60^{\circ}) =$$

24.
$$\sec(30^{\circ}) =$$

25.
$$\csc(\frac{\pi}{3}) =$$

28.
$$\csc(\frac{\pi}{6}) =$$

26.
$$\sec(\frac{\pi}{3}) =$$

29.
$$\sec(\frac{\pi}{6}) =$$

27.
$$\cot(\frac{\pi}{3}) =$$

30.
$$\cot(\frac{\pi}{6}) =$$

31.
$$\csc(45^{\circ}) =$$

34.
$$\csc(\frac{\pi}{4}) =$$

32.
$$\sec(45^{\circ}) =$$

35.
$$\sec(\frac{\pi}{4}) =$$

33.
$$\cot(45^{\circ}) =$$

36.
$$\cot(\frac{\pi}{4}) =$$

37.
$$\sin(90^{\circ}) =$$

40.
$$\sin(\frac{\pi}{2}) =$$

38.
$$\cos(90^{\circ}) =$$

41.
$$\cos(\frac{\pi}{2}) =$$

39.
$$\tan(90^{\circ}) =$$

42.
$$\tan(\frac{\pi}{2}) =$$

43.
$$\sin(180^{\circ}) =$$

46.
$$\sin(\pi) =$$

44.
$$\cos(180^{\circ}) =$$

47.
$$cos(\pi) =$$

45.
$$\tan(180^{\circ}) =$$

48.
$$tan(\pi) =$$

49.
$$\sin(\frac{2\pi}{3}) =$$

$$52. \sin(\frac{5\pi}{6}) =$$

50.
$$\cos(\frac{4\pi}{3}) =$$

53.
$$\cos(\frac{7\pi}{6}) =$$

51.
$$\tan(\frac{5\pi}{3}) =$$

54.
$$\tan(\frac{11\pi}{6}) =$$

55.
$$\sin(0^{\circ}) =$$

$$58. \sin(\frac{3\pi}{4}) =$$

56.
$$\cos(225^{\circ}) =$$

59.
$$\cos(\frac{5\pi}{4}) =$$

57.
$$\tan(150^{\circ}) =$$

60.
$$\tan(\frac{7\pi}{4}) =$$