

Give each of the following to four significant digits.

37. $\sin 1.000$

38. $\cos 1.375$

39. $\tan 0.2500$

40. $\sin 0.6667$

In Exercise 41–50, r , θ , s and A are as shown in the figure at the right. In each exercise, two of the four measures are given; find the other two. If θ is asked for, give its measure in both radians and degrees.

41. $r = 3.00$ cm; $\theta = 2.00$

42. $r = 40.0$ m; $\theta = 0.500$

43. $r = 60.0$ m; $s = 90.0$ m

44. $r = 1.20$ cm; $s = 3.00$ cm

45. $s = 2.40$ m; $\theta = 0.800$

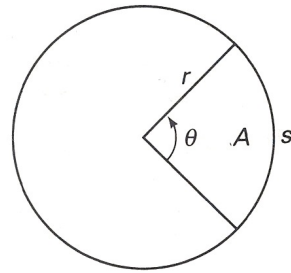
46. $\theta = 0.375$; $s = 1.20$ m

47. $r = 6.00$ cm; $A = 24.0$ cm²

48. $r = 1.25$ cm; $A = 0.750$ cm²

49. $A = 1.08$ m²; $\theta = 1.5$

50. $A = 0.250$ cm²; $\theta = 2.00$



The latitude of point P shown in the drawing of Earth at the right is the measure of $\angle EOP$. The radius of Earth is about 6367 km.

51. The latitude of Boston is $42^\circ 21'$ N. How far is the city from the equator?

52. The latitude of Austin is $30^\circ 16'$ N. How far is the city from the equator?

