

4.3B Exercises

Find the exact value of each expression. If undefined, write *undefined*. (Examples 7 and 8)

43. $\sec 120^\circ$

44. $\sin 315^\circ$

45. $\cos \frac{11\pi}{3}$

46. $\tan \left(-\frac{5\pi}{4}\right)$

47. $\csc 390^\circ$

48. $\cot 510^\circ$

49. $\csc 5400^\circ$

50. $\sec \frac{3\pi}{2}$

51. $\cot \left(-\frac{5\pi}{6}\right)$

52. $\csc \frac{17\pi}{6}$

53. $\tan \frac{5\pi}{3}$

54. $\sec \frac{7\pi}{6}$

55. $\sin \left(-\frac{5\pi}{3}\right)$

56. $\cos \frac{7\pi}{4}$

57. $\tan \frac{14\pi}{3}$

58. $\cos \left(-\frac{19\pi}{6}\right)$

Use the given values to evaluate the trigonometric functions.

67. $\cos(-\theta) = \frac{8}{11}$; $\cos \theta = ?$; $\sec \theta = ?$

68. $\sin(-\theta) = \frac{5}{9}$; $\sin \theta = ?$; $\csc \theta = ?$

69. $\sec \theta = \frac{13}{12}$; $\cos \theta = ?$; $\cos(-\theta) = ?$

70. $\csc \theta = \frac{19}{17}$; $\sin \theta = ?$; $\sin(-\theta) = ?$