

HW Answers Unit 5 Lesson 5 p. 311 Odds #39 – 45, 53, 55

39. (a) $\sin 25^\circ \approx 0.4226$

(b) $\cos 65^\circ \approx 0.4226$

Note: $\sin 25^\circ = \cos(90^\circ - 25^\circ) = \cos 65^\circ$

41. (a) $\sec 42^\circ 12' = \sec 42.2^\circ = \frac{1}{\cos 42.2^\circ} \approx 1.3499$

(b) $\csc 48^\circ 7' = \frac{1}{\sin(48 + \frac{7}{60})^\circ} \approx 1.3432$

43. Make sure that your calculator is in radian mode.

(a) $\cot \frac{\pi}{16} = \frac{1}{\tan(\pi/16)} \approx 5.0273$

(b) $\tan \frac{\pi}{16} \approx 0.1989$

45. Make sure that your calculator is in radian mode.

(a) $\csc 1 = \frac{1}{\sin 1} \approx 1.1884$

(b) $\tan \frac{1}{2} \approx 0.5463$